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# Public Domain

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the April CD-ROM. The highlights ere a mossi semo get-together: The Party '85 PD Utilities

Among the bewidering errey of odds and ends ent in for PD utilities there is an odd Cherecter, e strenge self-testing progrem called Revision Mester, some AMOE code and the bas



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Questions and Answers

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**Editorial** 



And so we've reached April and things are beginning to brighten up on some fronts.

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f you don't have CD-ROM cepability and have our floopy disk co-ROM one you won't be disappointed. Wa'va got some very handy ublities on there

Ami Fila Safe

Am File Safe (AFS) is an atternative filing system for your floopy deaks and hard drives. Disks formatted with AFS are fester, more efficient and less prone to errors than disks formatted and written with the Amflay's built in filing systems. AFS also allows you to fit more data on your desks.

Cover disk 130 contains two varisons of Fourth Level Development's AFS One is a complete version for use with floppy drives while the other is for hard drives, limited to a maximum partition size of 10Mb.

Floppy installation If you are running a floppy-only copy of your Workbench disk and clear some space on the copy Rename the copy of Workbench so that it is named exectly the same as the original Put the original Workbench disk eway and work only with the copy for now. Leaving the copy of Workbench write enabled, delate the Tools

drawer to free up some spece Boot from your Workbanch copy, insert cower dals 130 and double eick on is form Open AFS-Floppy drawer and you'll see four ucoss in a new window marked install 2.0 and install 3.0 silong with 200 versions of both The 2.0 and 3.0 refer to your Amya's operating system Amya's operating system Amya's operating system with 86000 or bestur processors. Double click on one of the soons seconding to your system.

AFS will now be installed onto your copy of Workbench If you have just one floopy drive you'll be in for a lot of disk swapping but everything will work out in the end Time to get a hard drive perhaps? Whenever you want to use



A AFE can restly supreve your desk offices

### VirusZ

checker that sits in your Amiga's operatfor suspicious activity by a virus it can also specified disks and non. We chose to nclude VirusZ on disk 130 es rts "brein file" is well up to date end

can detect just about all the latest viruses. We can't guarantee that it will catch every

virus, as new ones appear all the time, but it's the best way to keep your Amige safe

To run it on a floppy-only system you'll need some space free on your Workbench disk This is because VirusZ needs a libiary drawer of your Workbench systern If you've already installed AFS Floppy as described on the page apposite you should have enough space on your copy of Workbench Boot this and then doubto click the A legislates is very seight

Install Libs Icon in the verocal drawer. The relevant files will be copied to your Workbench disk. You an now run the VirusZ program straight from the cover disk

Hard drive users should boot the hard drive and then use the





▲ Cooligans Virus & to your requirements.

Instell Libs roon. If you have the CD addition you'll find VirusZ m the AntiVirus diawer We recommend you drag the VijusZ con into the WBStartup drawer, or elternetively copy VirusZ onto your hard drive and call it from the userstarbin secuents

### What to do with VirusZ

Once VirusZ is running you can set a number of options to configure it to your requirements. Click on the VirusZ ber et the top of the Workbench screen so that it becomes active. Now when you hold down the inhit mouse button you'll see VirusZ menus appear rather than the usual Workbench menus

Selections from the first menu will carry out tasks, while the second menu is used to set the options los the tasks From the Prefs/File Check option we suggest you click the Decrunch Executables button and save the changes. This will mean that compressed files will be unpacked and checked during a File Check process. To check a disk or a directory of fries, select the Frie Check option from the

Project menu, choose your erea from the file requester (use the All button for speed once you've selected the You'll be given a progress report as the program checks all the files If you have AmigaGuide installed on your machine you can read up on all the edvenced options English guide docu-

ment on the disk

AFS craks you will need to boot with this copy of Workbench.

### Using AFS Floppy

Now it's installed, you won't actually get an AFS disk icon on the Workbench until you have formetted an AFS disk Because there is no disk icon you can't use the Workbench menus to format an AFS drsk - you'll have to use the Shell inchead Enter the following m a Shell window, pressing

### cd sys:system resident format

The above lines will make formatting disks a lot simpler. Now to ectually format on AFS disk, insert a blank into the internal floppy on one line and press Return

### format DRIVE afo: NAME - fuddak

In the line above, pay close attention to the case of the letters

(capitals where appropriate) and make sure you enter AFO with a read and write to and from the addressing it as AFO , You'll notice that an icon called 'elisdisk' has now eppeared on the Workbench disk, change the 'alsdisk' part of the line above to a different name. This will become the vol-

### Hard drive installation

To install AFS onto your hard days, boot from your haid drive and then insert either cover disk 130 or the CD if you have the CD Magazme If you want to use AFS on both floppy disks end your hard drive, you'll need to run the Spooy installer too Double circk on the relevant roon from the AFS\_Floppy diewer and see the text above marked Using AFS Floogy for more details

Instellation of the AFS HD demo is more complex. Select or make a suitable partition on your haid drive. All the date in the selected partitron will be destrayed when installing Ami-FileSafe so meke sure you make a back-up Ami-FileSale must be installed in the I, directory You can do this by double clicking on the Install or (nstall020 (For 68020+ machines) rcon.

Now you can install Amr File Safe on the RidgedDeskBlock You can use Commodore's HDToolbox which comes supplied with the Workbench software We assume here that you will use HDToolbox.

refer to its documentation Satert Arlyanged Options in the the Parutoning window, A number of extra buttons will appaar Click on Add/update. and then circk Add Now Fite System Type in

### LiMardDiskAFS

for the name of the file system Set the Dostype held to 0x41465301 and than select Ok Go back to the Partitioning window select the desired partition

and select the Change button Select Ami FileSate (AFS\1). Use all the default options automount on, block size 512, 2 reserved blocks.

If you are using an older vaision of HDToolBox and there is not a Change button then plack on Custom File System and then type 0x41465301 mto the Dostype field Change the Buffers lickl to a value between 50-200 depending on how much memory you have free (1 Buffer = 1K)

If you are using an IDE drive then set the Mextransler value to 0x1ffff Now select Ok and the Partioning menu will appeal again Fill in the name you want the device to have in the Partition Devrce Neme field (e.g. DH1). Set the the Bootable flag if you want to boot from this partition. Go back to the main screan and save the changes

Ami File Safe should now be instelled on the partition Reboot Workbench If you have done something wrong then go back and start agein









What the Magazines think. and produces have recommely achieved the highest asspurer accolutes and recom-Assign Compacing. If you make the factor Assign in the Shoick for this instead." How make the factor Assign in the Shoick for this instead.

Assign Formula 1. East on the protect A-1200 in the Shoick." 19th GOLD Easing How to Order from GH.

ACCELERATOR & MAIL

ONIs - Expandable to 1281/th

The Blizzard 2069 Turbo Accelerator Memory Buss

PSS' to FSL totals pair race, militare and displace/cooling phonofile repole y doe details, I desprey it collections (and totals) known are safet from many de pair user puspies with feature safet filled disquare please above I dept detailed. Early in which from pushing the little produces transpare please.

who takes of another regions which are showing make modeled for profusional ones to substantial paying dayor sine. Ask GH for Full Ferrors

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# Leading Lap SE

A game by Reflex Interactive/Kellion



These are the main controls:

- Joystick forward: Accelerate
- Joystick back: Brake
- Joystick left: Turn lsftJoystick right: Turn right
- Esc: Quit raca/Continue
- P: Psuse end options
- Space bar: Toggle camere height F1-F10: Adjust viewing
- angles/view other cers
- \* Return: Return to your car

Chose your driver, choose your car, fire up those engines and get going. This polygon recing sim is youre EXCLUSIVELY from CU Amiga Magazine ...

f software houses voor touble games won't spuble games tree Leading Lap for you commercial release though — how would findle in Internetive surver it is the that the same and the same same and the sam

disk, for both AGA and ECS. Tha A500/600 version will work on the A1200 and rt'll be fester too, but the AGA version does have more sound affects and more detailed scenery Needlass to say the AGA varsion will not work on an AECO/600 You will need to decompress the varsion of your choice to a saparate single disk This is a simple process, 1. Have a new, blank formatted disk close to hand and turn off your Arriga. 2. Write protect disk 131 and insert it mto the Internal drive. 3 Turn on your Amige and west until a CU Amiga loading

screen appears. This will have two disk mons on it. 4 Fellow the instructions to press either F1 or F2 to decompress aither the ASA or standard version on Leading Light to your blank disk. 5 Once all files have been decompressed onto the blank disk simply restart, your machine with this disk simply restart, your machine with this disk.

in the drive and the gama will start. Label this naw disk "Ladding Lap SE". Put disk 131 his asia place in case of future problems if you have any difficulty decompressing or loading the disk than turn to page 23 for advice.

Running Leading Lap SE

Leading Lis SE is similar to food and virus but in the same as time of an order of the same as the sam

under the heading Senal Play Pressing the Start Sesson option will bring up your chorce of driver. There are five to select from and you can find out more about them by pressing the driver stats button on the driver select.





screen Once you've chosen your individual machine driver press on next. This will Serial linking ... bring up your car selection screen. Here you have a choice If you want to get really competiof three vehicles Pressing on trve you should find a friend with next efter this will bring up the Here you can enter the chemps-

to Start Next Rece, or practice any one of the five tracks in the Racing controls Leading Lap uses both joystick end keyboard during a race. The joystick is the primary control device but using the keyboard

an Amige and a null modern cable. You can link up two ABOOs or two A1200s or, say an A500 anship immediately by choosing and an A1200. If you do the letter though you must remember that the person with the A1200 will have an edvantage and you must be running the non-AGA version on both machines

This type of link will crash more often then a limk between two similar machines To link up you need to have the

ing set up on your

Compatibility ...

eading Lap has been tested on Amiga 500, 500+ 600 \*200 end 4000 It works even if there is a held drive present and works with the Blizzard 1230 accelerator board we use regularly. However if you have problems with Leading Lap it may have something 1do with the penpherals you have plugged in If so, test it without your RAM or Accelerator, or any other perpherels. It will work Believe us

Leading Lap SE When you reach the first options screen select Guidee Match and then simultanegusty select either Grudge League or Single Metch from the next two selections If you are properly connected

the link will take about 5 seconds to establish After this one of you should inceive a message saving something like "link successful, you are the slave" The other will receive a massage seving "link successful, you are the master" it is moortant that the slave makes their driver and car

Lea

selection first, otherwase the link has a tendancy to crash Once the slave has made his or her selection the mester needs to select drive then can then which one of the five tracks you want to race on. After this the race will begin as normal except you'll both be racing against each other on different Amreas and different screens If your link crashes then

restart everything all aver egain, having first checked that your null modern cable is properly connected All senel links have a tendency

to disconnect from time to time for no apparent reason but if you play things by the book it shouldn't happen too often



On the CD

If you have the CD-ROM vernion of the mag-ezine you will find Leading Lap already onissed in the Floppy folder. To ri uncompressed in the Floppy clobe. Yo real Advanced to the Floppy clobe. Yo real Advanced to the State of the

cable plugged into the sensi ports you can adjust the viewing angle

Problems and the track editor There are two versions of leading lap on both the cover disk and CD you now own. It is fully functioning in all ways: you can enter competitions, you can race against human competition using a serind link, you can do everything you could in the full version of the game we reviewed three months ago, except race on some of the tracks. This is yours to play for as long as you want, for the cover price of the magezine there ere no catches But Reflex Interective. who supplied us with the game are domo an upgrade offer too, the sort of one you usually see with a utility. This gives you seven more tracks, extra sound effects, a track editor (AGA only) and an phiects suite (AGA only) which will ellow you to make up your own tracks. This is the difference between Leading Lap MPV as reviewed and Leading Lap SE if you have any problems with Leading Lag SE or you would like to upgrade to the extra tracks and the editor clease write to Reflex Interective at CU Amiga Leading Lap SE, REFLEX INTERACTIVE, 13 Hawley Crescent. London NW1 8NP The extre 7 tracks and SFX is evalable for A500/600 et £4.99 plus 1.95 P+P, while the AGA only track editor. plus the extre tracks, objects and SFX is £12.99 plus £1 95 P+P

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# Vhat's on your



Mat Bettinson quides you through the 650Mb of goodies on this month's cover CD.

### Getting started

You can boot this month's cover CD on any CD-ROM com-parible Amiga or CD32. Alternatively you can boot from your hard drive first one access the CD from there. If you choose this method, double clich the InitCD loos (this is a very small loon in the bottom right of the CD window).
This will set up the system so that much of the activate can be run straight from the CD. Them's no need to do this if you booted from the CD.

ryour boots of from the CD.

You'll notice that the loons are rather attractive but the clours may not be quite right. If this is the case, double lick the ColourMs icon. These rather attractive loons are highly supplied by Tom Electron from his conceptions 3.0 set.

All of the mein ernor can be access from the root directory of the CD (the mein CUCO window). In general, if you open a drawer and find some icons inside, you should be able to cick and run them. On the other hand, if you am presented with a list of filenemes and no looss is an expression with a list of filenames and no legi-it's likely that these files must be loaded into an applica-tion or handled in some other way (such ea the Imagine abjects for exemple which can only be used by loading them into imagine).

them into imagine).

The drewer icons that feature a tich mark all contain denses of existing CD-ROM titles and commercial packages, with a vary generous selection of the softwere feryout or try out. These CD previews are thanselves contained in drawers marked with CD icons. These CD preview are than selections of the contained on the contained demos have their own front-ands that are used to access

Now here's a guide to all the major areas of this month's CU Amiga Magazine CD-ROM.

### Magazine

Contents, tie-in files for the follow ing megazine departments areas: PD Scene, Wired World, Graphics Mastercless, Q+A Mestercless

and more.

The freely distributable software from All the softwere here

is stored as DMS

would not all run from the CD. You'll be prompted for blank disks as you select them Also see the Misc/The Party 95 diawer for more demos, some of which run from the CD Graphics Mesterclass contains images for use with this month's

tutonal, along with a few from previous issues. You li find some more in the Images directory which includes some that were miss-

ing from our previous CD ROM edition. The Wired World directory contains the newest version of Metatool, the MIME encoding/decoding tool as featured in John Kennedy's Wired World tutorial this month, in order to install to your hard drive, simply dreg the directory to an appropriate place. The O+A Mastercless directory contains the ARexx script files as cov ered by John Kennedy in the Q+A Mesterclass tutorial this month Finally, the Amige E directory contains virtually all the developers material for Amige E as cover mounted on the December edition of CU Amiga Magazina. A great many archives have been extracted to this directory so viewing via Workbench will be messy. A directory utility would be best to find the Amige E support files you need Documentation for each will also be present in the same directory



### Floppies

Contents; ECS (A500) and AGA (A1200) versions of Leading Lap SE full geme, VirusZ enti-virus peckage, AFS herd drive demo, AFS floppy full version.

Leading Lag SE can be found hare in DMS eichive formet, for both ECS and AGA machines

The Tech disk section contains the complete Pronet system with full documentation. For more information on the rest of the programs in this drawer. ses the floppy disk instruction pages

Shortly efter the CD went to pross, we found the VirusZ drawar mistakenly contains Virus Checker and not VirusZ. This is not a problem since VirusZ is also present in the Antivirus drawer off the root of the CD. Installing Virus Checker isn't a bad idea either for double protection. Instellation is easy Just boot from your own Workbench and click on the Instell Virus Checker ico





### Support

Contents: Iconographics Icon replacement set, MUI 3.2 (fixed) support GUI system. Delitracker comprehensive module player end Viewtek 2.1 viewer.

The Support drawer contains a number of programs that are required by the CUCD and its software. First off, the Iconographics package is the top left icon. Click on Install\_loons to install these icons onto your Workbench, or the IGfx Preview icon to show a picture of an example Iconographics Workbench. The Iconinsteller program is a menual instellation method using a drag and drap interface

Megic User Interface 3.2 (MUI) is an extension of the Workbench system and is required by some softwere. If you didn't boot the CD, you'll have to click on the InitCD Icon in the root directory to temporarily run MUI from the CD. If you intend to install MUI it would be a good idea to drag the MUI drawer onto your own HD as it will run much auscker

The SuperViewCD drawer contains an exclusive CD damo of the wonderful multi viewer/converter package called SuperView SuperView uses special loader and saver libraries to load virtually any type of picture and save out as any other type of picture What's more, it can display on virtually any display system from the Amigo's native ECS and AGA chip-sets to graphics boards and RTG systems such as CyberGraphX. Read the does to gain more informetion end if you think it suits you, alick the Instell\_SuperView loon

to install to your HD. Delitracker II contains the Amiga's most powerful and comprehensive module playing utilitias around. It handles virtually every type of module and can play from Fast RAM and even 14-bit playing and headphone mixing. Reading the documentation is highly recommended. Delitracker is activated by the Johan Alpmar ProTrecker and the ScreemTracker jukebox icons in the modules

section of the CD. Finally, ViewTek is a picture viewer able to handle most types of files. It's simple to use and downgrades high-colour pictures such as 256 colour GIFs/IFFs and JPegs to ECS HAM6 screen modes on

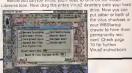
### **AntiVirus**

Contents: Virue Checker and VirusZ enti-virus peckege complete with VList list of leke-virue infected erchives and files.

·To tie in with our AntiVirus featura in CU Amiga Magazine this month, the top two virus checkers are included so that you may

rest easy against the threat of a demograpy virus etteck it's best to boot from your herd drive if you want to install thesa. To install Virus Checker click on the

Install\_Virus\_Checker icon Before you can run VirusZ you II need to click on the Install



drive Now you can out either or both of the virus chackers in your WBStartup drawer to have them permenantly resident Check page 10 for further VirusZ instructions

# earthcan ABA-nor

Contents: Worms Special section, Blitzbombers demo, Watchtower demo, Nemec IV demo + many full PD/ Sharawere gemes.

Click on the Worms Special icon and you'll find a number of support files for Worms and a preview of a forthcoming Worms Enhancer CD-ROM. The maps contained here and in the Custom directory must be copied to your Worms TWCustom drawer on your hard drive or onto fresh disks if you're playing from floppy. Read the

documents here to find out more about the Worm map creators Next are four large ball icons with CDXL in their names. These ere two of the CDXL enimetions from CD32 version of Worms. The CD32 icons should be dicked on only by users of CD32s and CD32 emulating CD-ROMs. The others should be used by those using

SCSI CD ROMs The last directory TWENGLISH, is a complete replacement sample set made by the CU Arnige team. Some of the samples ame from smaller replecement sample sets. Many thanks to Jor

Guidry and Richard Smith for their contributions To instell this set onto herd drive open up your Worms directory Select the window and choose

Window/Show/All Files from the Workbench menu. Find the drawer called TWENGLISH and rename to TWENGLISH OLD Then simply drag the TWENGLISH drawar from the Worms Special directory onto your Worms directory

Please not that floppy drive users will need to format a floppy disk with the name TW2. Then drag the TWENGLISH directory into this floppy disk. When Worms is running end asks for the second disk, insert your new floppy disk instead of the original Worms disk two OK Now enion









Contents: OctaMED SoundStudio demo, Audio Lab 16 demo, high quality 3 and 16bit samples. ProTrecker, OctoMED and ScreamTracket modules end jukeboxes.

The Sound drawer conta save disabled damp of the 16-bitcapable OctaMED SoundStudio (see the preview on page 69) An AudioLab16 2 0 demo is included

which can take digital sample data from audio CDs, provide DSP style effects, process 16-bit samples and more. Tony Horden has returned with enother sound sampla collection. The drawers are split into 8 and 16-bit samples. The 8-bit sound samples are a vaned bunch including loops, hits, effects and so on. Double click on them to hear them U4:a/F8 has supplied some onginal drum loops. For 16-bit eudio users thern's a complete TR-909 drum kit and some TR-808 bass drums



A great deal of modules in meny formats are included in the modules directory grouped into ScreamTracker, OctaMED and ProTracker The ScreemTracker module collectron has a special juknbox icon which will launch Delitracket to play from the collectron at random. The ProTracker collection has a jukebox dedicated to module author Johan Almar All of

Johan's works that we could find



are included egain the jukebox will play from them at random The OctaMED directory contains the entire works of Samuel Gilbert AKA Orpheus, plus a few of Tony Horgan's old mods. All these mod-ules have icons to launch DelTracker. The modules with the '9' postfix. are special 9-bit modules and Delitracker will use its 14-bit noteplayer to render them correctly

### Graphics

Contents. Frash Fonts 1 + Il CD previewa, Amige3D Imagine objects CD preview, Dust utility for

rendering packages. Graphics drawar is

loaded with four massive CD previews. Fresh Fonts Vol I contains many megabytes of DMF fonts suitable for PageStream (December a cover disk). The fonts can be loaded straight from PageStream. Fresh Fonts Vol II contains megabytes of IntelliFonts, support for which is

built into Workbench and many other Amige programs The Amiga-3D CD preview is an exclusive 20Mb sample of Imagme 3D objects from the BatterSoft Amage-3D CD. The objects have no cons and so you will have to access them directly from imagine However, using the Hi-Soff MagicLink's demo might give

you a better idea of what each object looks like The BML drawer contains a massive back archive of internal agene Mailing List erchives as large text files and AmigaGutdes. You will need to use a text viewer or Amaga Guide utility to view them

They are an excellent reference for troubleshooting with Imagine The Dust drawer contains a powerful peckage for producing 'perucle' effects for Imagme and other types of rendering package. Dust will run from the CD fine but it's recommended that you drag the drawer across to a hard drive paration if you intend to use it regularly package and in the case of Dust, it's an essential read. Click on some of the faces for some example images of what Dust can do

Texture Portfolio represents the final CD preview, this time from Ground Zero PD, and is a selection of high quality JPags 24-bit textures which can be used for several tasks, such as backdrops for multimedra and wrap-on textures for 3D randering. The collection has rooms for each picture which when clicked will activated the ViewTek viewer to display the texture concerned. Clicking on the Portfolio. Ad icon in the root directory of Texture. Portfolio will reveal ordering information for the excellent full CD. There are also support utilities for imagine

Alfefexture contains some new third party mathematical textures for Imagine 3.0 and above, AnenFlare is an example project and tutortal for producing animated flare effects and the d2magine guide is a comprehensive ArnigaGurde Imagine autorial which if used in conjunction with the imagine Making List erchives and Imagine HTML tutonal/reference in the Comms/WWW sectron provides a massive reterence for this excellent rendering package

### Hi-Soft

Contents: Demos of Cinema 4D rendering package, Megic Link 3D object converter, Disk Magic directory utility, Termita comms terminal package, Twist 2 detabase and more.

All of the demonstration peckages in the Hi-Soff directory at the top right of the CUCD root directory, except Termite, can run directly from the CD Termite will need to be installed to hard drive. The Twist2-Demo is a demo of the Twist2 detabase. To activate it dick on the Run Demo roon within its drawer. The same goes for DiskMagic, a demo of the top rated directory utility DiskMagic will need the Setup-DiskMagic roon dicked on before the DiskMAGIC Demo roon

MagicLink-Demo is a demonstration version of a new 3D object orwerter by Mexon. Again, a simple double-click is all that's required MagicLink will happily convert between many different types of objects are even proved as a Hend in hand with Magic Link comes the Cinama4D-demo Be sure to read the Cinama4D-Tutorial txt file which also details the features missing from the demonstration version. After running Cinema4D, select Project/Load and pick one of the provided projects to give CAD is spin

### Misc

Contents: BittzBasic 2.1 and Dice 3.0 programming language demos, AGA experience CD preview, AIBB benchmarking tool, Digitel Universe demo (MUI) and ImageVision demo This directory contains two complete demo programming environ-

nents for Birtz Besic 2 and Dica C 3 0, Digital Universe is a demo of an astronomy package similar to Distant Suns and will be reviewed next issue ImageVision Demo is a demo of a multimedia authoring package from BlittarSoft also to be reviewed next issue The Everybody's Girllnend drawer has a compressed audio sample

David Pleasance ex MD of Commodore UK playing flemanco guitar on the PareMiAmiga track off the album Everybody's Guiffrend. The AIBB drawer contains the AIBB benchmarking utility There are

lots of modules of vanous Arriga system benchmarks which can be loaded into AIBB for companson. The Party 95 drawer contains a large number of The Party 95 demos, many of which can be run directly but

some may need to be copied onto floopies or haid drive Playing the DataWorld animation is essential but you'll need the right libraries installed Lastly, a CD preview of Sadeness Software's AGA-Experience CD-ROM is included. To access this simply click on the AGA-Expendence icon to ope the drawar and then the CLICKMEI icon to activiste the GUI front end



Comms

Contents: Zaue BBS damo, Thor maif and news browser, AWab WWW Browser demo and CU Amiga home page + World of Info

CD preview This directory is dedicated to communicasons and Internet related meternal but con-Firstly there's an antire archive of Jason Compton's Amiga Report alectronic megazine

You'll find this in the Amige Report drewer To view each menazine, simply click on the cons Next up sie a couple of demonstration

CO Anna Manage velocine via to the COCO houseast packages which must be installed to your hard drive. These are the Thor Internet Mail and News browsing software and the Zeus BBS package. In both cases, opening up tha windows will reveal an instell icon. This will activate the

Commodore Installer This drawer merked WWW is dedicated to to the World Wide Web All you need



do to check out this wanderful entity is to ppen the WWW drawer and click on the AWeb scon. Presuming that you have a GIF datatype installed on your Workbench or you booted from the CD than AWeb should fire up nght away and you should see the CU Amige ban-

har If you don't see the banner then enter the following commands in the AmigaDOS shell, hitting return after each line and being sure to get all the characters correct including spaces

od cued:workbench/devs/datatypes/ copy #7 Dave: DateTypes/

od cundiworldbench/olassss/datatypes/

Copy #7 Sys:Classes/DataTypes/ After that, reboot your Amiga and try egain. AWeb should now activate and display the CU Amiga "home page" correctly. What you see is similar to AmigaGuide. You can scroll around the page and where any text is in blue, this is a link and you can click on this to move off to that location. Of course AmigaGuide doesn't give you pictures in the page either We'va compiled quite a collection of WW W pages for you to 'surf around' to give a taster of what you could expenence with a WWW Browser on the Internet where there are millions of WWW pages all around the world and they can be navgeted around in the same easy point and click feshion.

Further down the CU Amiga home page, you'll see a small index. The first "link" is to the documentation for the demo WWW Browser you ere using, AWab. The second is some pages created by CU Arrige Magazine writer John Kennedy John has included some of his previous arboles. The third item is deceptively small for the material contained within



made up of HTML page - WWW encyclopedia. Daniel Amor kindly donated to give a taster of this useful CD resource. Ordering information is contained in the pages

17\_Bit\_PD
Contents: 3 massive CD previews of top

PD/Shareware colfactions, 17 Bit Phase 5, Nothing but GIFs and LSD 3.

Using the three 17 Bit Softwell CD previews is simple. For 178xt5, just open the directory and double click on the Fifth Dimension icon An ArrigaGuide document will appear When you find your way to the listings of files, if the filename is an AmigaGuide button, the erchive is present on CUCD and all you need to do is click on it to extract to floppy disk, RAD or any other floppy compatible device

17BITGIF is a preview of the Nothing But GIFs CD. Simply click on the WELCOME icon. Each directory of pictures has a number of indexes to give you e guick impression of each pic

the Just clicking on the index or activate a wewer to display the picture. As with all the 17 Bit PD CD previows, if the filename is not an AmigaGuide button then the file is not present on CUCD but only on the full CD Click on the 17bits of if icon in the 17 Bit PD drawer for ordering information on the full version of the CDs

Epic

Contents: CD previews of Sci-Fi Sensations and Special-FX vol 1. Within the Epic drawer is a CD Preview of Epic Marketing s Sci-Fi ensations and a preview slideshow of their Spacial-FX multimedia title Unfortunately the Sci-Fi Sensations CD preview GUI front and won't work if you don't boot from the CD. This can be solved by per forming the following line in the AmigaDOS Shell before activating

Sci-Fi Sensations Assign Libe: CUCD:Libe ADD Enter this line exactly as show, complete with all the spaces and hit Return at the end. You can now exit the Shell. After entering the SCI-FI\_SENSATIONV2 drawer, you'll need to click on the Click Me 1st loon

amiga menu If ell has plan, a GUI interface should appear which will let you move material and generally just click to view or hear the files



Many thanks to ...

Many Thanks to ...

Though there's no icon, if you're laterasted in the trists and trabulations that our caver OD compiler Mist Detrison what trabulations that our caver OD compiler Mist Detrison what have go to a text file in the rest of OUCD offset your text when so to a text file in the rest of OUCD offset you text when would like to them all the people that provided the satisfies when the output that the providing that provided the market of the providing the providing that provided the satisfies the providing that t and of the state o

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This month's 'technical' cover disk 130 will not sutaboot. To access the programs you will first need to boot from your Workbench disk or your hard drive. See page 9 for instructions on installation and use of the softwere on disk 130.

CD32 Notes
While this CD will boot up on a CD32, due to the limited resources
of a stander CD22, not all of the software will be compatible.
However, much of the software can be run directly from the CD.
You will ence a means and prefarable such you know you get the most
loam this CD but you may find you can browns through the
sostants using the Jopped controller.

Accesses the psycate controller.

Accesses the man to be consistent as possible and so we decided to installed most of the activator for accesses the controller accesses to make the CD wherever possible. Actives or seed in some of the demon of committee the Most first has been been consistent to Most first has seed in some of the demon of committee CD Most first has seed to be expanded to floopies. However, on the whole you'll find the self-uner is restrict to go will no measuring around. Another the most produce the control to go will no measuring around. Another the controller to the controller to

Hard drive users
I you doubt to boot from your hard drive first, remember to double
did to be lettil? Does in the bettern light corner of the CD window. This
did to be lettil? Does in the bettern light corner of the CD window. This
did to be the control of the



### Cover disk 131 Leading Lap

There are both A500 and A1200 versions on this disk. You will need to decompress either version to a separata single dek This is a simple process. (1) Heve e new, blank formatted disk close to hand and turn off your Amiga, (2) Write protect disk 131 and insert it into the Internal driva, (3) Turn on your Amige and wert until a

CU Amage loading screen appears. This will have two disk icons on it. (4) Follow the instructions to press nither F1 or F2 to decompress either the AGA or standard varsion on Leeding Lap to your blank disk, (5) Once all files have been decomprassed onto the blenk disk simply restart your mechine with this disk in the drive end the geme will stort, Label this new disk "Leading Lep SE", Put disk 131 In a eafe place in case of future feilure.

### IF YOUR DISK WON'T LOAD

He go II great treable II source that the CS Arage Magazine source dieks will mark an common Aniga medols. Herceruc, il you dis axpanaone probleme fallous skie simple polde

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# **AT Promises Future**



free the dust had settied. we went to Amage Technologies' new Stansteed office to speak to the man now in charge of the Amige's fate in the UK John Smith was positive and excited about future prospects and elthough diseppointed that his steff hed been decimated, he was undaunted by the task shead. He believes that Amiga Technologies has enough gen-

uinely new products on the way and enough senous development in hend to put the Amiga back on track Chief emong these in the short term is the Amiga Sirrfer Pack which is due on sale this month for under £800 and contains e modern and raidy to go internet softwara on its stendard

hard drive Because of its AMICA plug in and go capability ha believes that this will appeal to a wider audiplug in and go capability appeal to a wider audience then the stendard A1200 Magic Pack did. Here's what we asked and what he said:

> Q Why dtd Amige Technologies close down the Maidenhead Operation and loss so many staff? A One thing that was always

on the cards was that Maidenhead was going to be temporary it was always our intention that we would use the strengths of our parent company Escorn Henca the end of Jenuary we moved. As far as the redundancies are concerned there are a mixture of things. First, some of the staff would simply not have relocated from Maidenhead to Stanstead, as it is a significant distance to travel. Couple this with the less then expected turnover that we got at Christmas and that's why we didn't bring all the staff bere

■ Q Do you think that the Amiga scena in Britein has been affected by the lose of so many staff?

A It's not good for envone when you lose staff, I accept this. But at the end of the day one has to cat the cloth accordingly You can see these piemises, they're tremendous end I can rely on a lot of help from the (Escorn) people hare I still have the back no in Germany, who are beginning to take a more active role in publicity in the UK and we're also going to

do the show, which as you know we're sponsoring. What I'm sayeng is that we want the Amiga to move forward, we want it to have the desugbility it's always hed. and if this confidence has been dented slightly, well that s life But it is my belief that with the excellent features that wa've got planned [Surfer Pack, Q-Drive sto] that in the very near future the Amina will start to get back into the public eye in the very near future, in the manner that we would all like it to be

■ Q to the UK market still viewed by the parent company

as baing an important markst? A Yes of course They have heen more proactive in the German market, as yon said in your last month's issue, and certainly this paid off there. They're now starting to look at things here in the UK, and are doing the Amiga World Show to help motivate the user bese in the UK. We really should be 50/50 with Germany in real terms 80% of all Amiga bisiness should be done between the UK and Germenv. 40% each. By the end of this year this is what we believe we will be able to achieve

III Q. What assurances can you give the UK reader of CU Amiga Magazina that Amige Tachnologies isn't retreating from the UK market, that it still has a strong luthre in the UK?

■ A One thing is certain 40% of Amiga Technologies' business can be done in the UK, and any businessman worth his selt world not

want to lose an opportunity like that It's going to take us time to get back to the dizzy heights though, Let's fece it, at Commodore we had eight years of Amine and that's a long time to develop a product li respectiva of who's in charge in the UK the guys back in heed office in Germany want to see the Amion succeed here. This commitment will be shown by new products during 1996, like the Q-Drive and Inn and continued development this year and in 1997

■ Q if Christmas didn't go es well as you expected, how do you view survival this summer?

A Very shortly we will be releasing the Q-Drive. We believe this sort of add on peripheral shows that we are very senous about our machine and this is the right time to launch it. You yourselves are producing a CD-ROM magezine end this proves it. We are also launching the internet These are tha kind of products that show the strengths of the Amige They show its variety end they show its professionalism We know it's a good gemes machine, but we also know that it has so much else to offer and this is the long term message we want to get across

■ Q. We've always criticised the relenached Amiga for not being powerful enough. In between PowerPC and the cur rent machines do you still have plana for an upgraded A1300?

Fisher odd ES to w

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UCTS

III. A Well, Ampg Technologies In acertain; are voicing twentist an 130 based machine. We want to produce on Ampg which falls in between the Q20 Af200 end the begger A00016 Remember that the armed data for the PowerPC. Ampg as spong 1907, end that's without any sippogo is mice way of saying deleved! No we want to see the product strengthened and we have belter.

■ Q: Will it have a CD-ROM drive end Herd Drive? ■ A I don't went to give too much information away at the moment to beauties nothing is set in concrete. I would say a hard drive is necessary, and a CD-80M drive should be an option, as it is with the current A1200. We have big hopes for this C-Drive, as I have said this is the way the market is developmen.

Q But software developers need to know whether it will have these facilities or not so that they can develop for it. ■ A We will renew our efforts to ralk to software houses and I per sonelly have already had some positive advances

■ Q. When will we sea the A4000T in the UK?

■ A We had the first significent shipment of A4000 is lest week imid February into Anglo/SDL. In time we will get more fluid supplies I don't know all the reasons for its delay but one of them certainly is the CE mark I know they had to make a few minor tweaks.

to get the machine to conflorin the the EC's new stort regulations. (CC's sarrays for controlled amesions. As of the cost of the confloring and the confloring the confloring to the confloring to very stort radiation strains associated. These apply to all peopherals attachable to the machine as well as the unit steel? The testing is expansive and lengthy. Because the 40000 treating the confloring to the uniteraction and another one will be the uniteraction.

# Silent Paws Update Oh Lordy! Its Valhalla 3

If you save our ancies on the Saker PAWS laptice Amery in the February 1508 assure and vere instructed, then the Volvo GEI Amery above in Nocretic In Anni 15th, 14th could be the place to go Secures in American bene character as earlier to the product of the Saker Saker

"It's e bird", "it's e plena", "it's a door", egght Those samples egein! The notonous Valhalla senas with its high end low ortched sample voices, its holes in the floor and its none too logical puzzles was a source of constant emusement despeir and argument here in the office You either loved the geme or hated it - there was no middle ground. But enough people out there must have loved the onginel and its follow-up The Lord Of Inlinity, because a new version, Valhalla And The Fortress Of Eve Is on The game will follow the for-

The game will follow the fortunes of the young prince of the onginal game and promises more of the same in terms of gamepley and even more sick of the samples Vulcan Is now incorporating a full text only option. The now game will be sold at Vulcan's good valua direct from publisher Mini Series pince of £14.99. Contact Vulcan Software on 0.1705 670289.

sampled taxt. Indeed, for thosa



# A World of New Kit



The World Of Amiga show itt April seams set to be the faunch pad for a whole range of new Amiga products

Not only will Arriga Technologies have their Surf Pack and the Q-Drive on display (et long last), they'll hopefully also heve tha first UK A4000's end possibly news on PowerPC and the now Workbanch

From other davelopers the nows is just as good with HiSoft working like mad to display their Surf Squirrel and Squirrel MPEG Both of these are set to take the Amige by storm like HiSoft's original Squirrel did lesi year HiSoft will also be demonstrating

the Terminate TCP (which has Mat Bettinson in a sweat already) and add one for the superb Cinema 4D from Maxon

Also displaying new products including last month's highly rated Wordworth 5, will be Digital Digital will have the cut down SE version of WWG on display for Amigas with just 2Mb and a sangle disk drive, elongside Organisar 2 and Datastore 2.

The Organisers of World Of Amiga haven't got a full list of exhibitors for the show just yet, but Power Computing, Silice, Harvoads and other hardware retailers and developers are all expected to take part

Booking for the show is available on the following phone number 01369 706346 For more information sae the

advertisement on page 96
Wald like to wish the show all
the support it deserves. We
intend to be there, so we hope
to meet you there. Let's keep
the Arrige alive and support

## **Worms, Worms and More Worms**

Team 17 have announced that they intend doing an AGA supprise for Verimen to case dynaming of the A1290's expensive growing display system. It will be more colourful and the variety of levels will be greater than in the onglinal version. Although the again angine will remain the same the update disks will fall into the E15 bracket and so will stall be top value for Verimen surk or recknot it's due to drive around the end of March, at the same time as Alein Breed 300. The Killing Groundes Call Team 17 or 0.1952 4,97776 for more distrible.

Binternoft have elso announced e Worms CD publical with hundreds of oustern levels levels, samples and spead updates it's due in mid March, so watch their ads for details. Bittersoft are available on 01903 261466.



m the ns

products for the Spring. These include new tower casings for the A500, A 1200, A3000 and A4000 ranges. Equipped with Zorro II and III, PCI stors and other expansion festures they will ortch in competition with both the Micronik Tower and Hr-Q's Power Stations (see page 77), for siots Blittersoft are claiming that PC boards will be available for the tower systems giving you both an Amiga end a PC in the one case. ulike Hr Q's Stemese Twin system which uses a seconda standalone

PC and SCSI unit connected via a Squirrel to a standard A1200. Blittersoft have also ennounced that they've taken over the distribution of Canadian company AsimWere Innovations CD-ROM software. The products concerned are AsrmCDFS 3.0, a control program for CDemulation and MasterISO on Amrge specific CD-ROM mestering program, Call Blittersoft on 01908 261466

**NFA Reply** 

Last month on Public Domein

utilities page we ren en erticle

bers and BBSes ou a disk that

we'd received from NFA end

esked them to contact us. We

from NFA and asked them to

send in their reply so here it is "I'm sorry you feel NFA ere a

bunch of piretes. Due to the ertr-

cle you wrota the morale of sev-

The vast mejority of NFA

"We do not promote pirete

Since publication of your

The last thing I need sitting

Signed NFA management.

promptly received a phone cell

on some suspected pilate num-

### Guildhall **Educational**

Gurldhall Lersure has token over distribution of 10 out of 10 Educational software 10 out of 10 produce educational products for both Amios disk end CD-ROM for ages 3-16. These include subjects ike Maths, History, Geography and a unrow range of languages moluding French, German and, of course. Enailsh Up to date national cumpulum is claimed. For more information contact Guildhall Leisure on 01032 890000.



### PageStream 2.2SE

Emerald are doing an offer on PageStream 2 2SE which makes it available for £49.95 Those not elready equipped with this superb package should investigate it now

this version will be available soou Emaraid can be contacted on 0181 715 8868

# Blittersoft Go Hard Stateside The North American scene of late has been one of coutious opt

with the Amige Atlanta 10th Anniversary Banquet as a high end the shutdown of a large Amige company a low. Let me explain writes Jeson Compton

The Amiga Atlanta user group's party brought Amigans from across the country to the Terrace Gerden Inn in feshionable

Buckhead, Atlanta, Georgie. The meal was standard-assue banquet. chicken but the conversation was all Amiga. The banquet brought in faces from the group's past and present, just as it brought in luminar ies from the Amige's history Dale Luck and RJ Mical from the ongine Amiga Corporation kept the audience entertained with tales of the design of the original chips the legendery joyboard that spewned Gury Meditation, and their own expenences with Commodore Legends of the industry Dave Heynie and Fred Fish addressed the crowd on their explorts, end I mysalf was asked to give a piece on the Amroa's future. But there wasn't anything I could say that the audienca couldn't see for themselves, persocularly when you take into

account who was in the audience Motorole sant a PR contingent, complete with a PowerPC604 machine (running Windows NT, but they were at least fairly apologetre about this and loads of consumer and developer goodles to give away. Newtak also sent close to a dozen people including com peny president Tim Jenison, who capped off the evening with a rellying speech about the future of the Amige and his personal confi-

dance in Arrige Technologies' managamant The future isn't what it used to be for Ceneda's Wonder

Computers, who as you may recell from our last issue had just come off of two store openings in the summer and the successful World of Amras Toronto show Unfortunetaly Wonder's accounts were called in by their bank and the company is presently in bankruptcy proceedings, it is the hope of Wondar CEO Merk Habinskr that he will be abla to raise enough capital to re-purchase the assets from the bankrupt Wonder and form a new corporation. While the North American man ket riself will be abla to sustain the (at best) stell in Wondar's operabons and would survive let worst) its failure to return, it has been a blow to customers who raised on their service, as well as retailers who not only raised on their business, but have considerable

accounts and merchaudise behind Wonder's locked doors In the face of AmiTCP's recent move to commercialism and the ralease off-Nat 225 (and its subsequent bundling with Arriga

plans to release a competing networking system. Dubbed Termite TCP after their popular terminal program, Termite's release date and price are as of yet unknown. At the same time, US-headquartarad developers, Omnigrasence, seem to be close to seeling a publishing deal for their (Browse Web browsing software While a firm statement was not evallable at the time of piess, letest reports from Omnigrasance man agarnant indicate that HiSoft of the UK will get the nod

### on my haid drive in the morning is copyright material

to say on the subject, I will be extra careful in future, as when I checked my system there were several archives with pracked keyfiles that I had not chacked properly (which were promptly removed) All I can say is that we Upgrades to version 3 0 from do try to keep the group lenel

top will be salling the SX32. Evetech of North Yorkshup are and multimedia authoring kit based around Optonica's MMe slimling 3.5 inch unit that Evatech claim will need no modifications to the standard A1200 to instell. It's a 1 083 Gigabytes lover 1000MbH model and should be enough for most multimedia applications. The drive, an

As well as announcing that they

25p A Megabyte matalled registered copy of MMe and other shereware and PD upli ties comes at £229 95. For more information contact Evetech on 01842 713185





# **Games in view**

ello and welcoma Now you may remember me threatening to glost at you following a recent trip to New York but considering the fact that it rained and snowad for the entire time it hardly seems worth it. You'll no donbt also be glad to hear that on returning from my trip, I confollowing wasks locked in a small room with only a large duvet for company Still, at least

Let's start with some positive stuff Time I feel to catch up with the game that I've been looking forward to since before wa sold The One ( grm, grrn) Yep, Blitz Bombers is still on its way, and bering a bit of legal 'calm down, calm down!" between the Leading Edge boys and 'enother company' - who are a bit worried about the similarity between Birtz Bombers and one of their meior titlas - it should be with us within the next two months

The company in question aran't actually being very difficult et all, and with any luck, the most it'll mean to the final game will be a possible change to the look of the main 'bomber' character.

Another interesting twist to the tale (according to 'Mr PhD' himself, 'Dr Nigel' Hughes) is that one of the geng recently found a load of music on an Aminet CD that they'd previously baan presented by THEIR musical man under the pretence of it being his original work! I know some people will try anything! Still, a couple of the actual composers have already been contacted and it looks as though the and result of this perticular problam will just involve writing a couple of new laval tunes

Other than that, avarything has come along wonderfully sinca wa last looked with a onaplayer name element having been implemented, where each level has a 'goal' as wall as baddies to kill it's all pratty aimple

Same old pictura I'm afraid, but that's what happens whan you go off on holiday and it snows continually. Still, at least I had the Amige games scene to look forward to on my raturn.

stuff like collecting keys and finding the exit, but should add to the longevity as a singleplayer nema Future projects from the boys

also look pretty interesting, with a decent 3D Blitz Bomber engine already doing the rounds - grying the game we know and love a more Gloom-like perspective.

One problem with this has come from not being able to see bombs around corners, but the team era hoping to compansata for this with clever use of lighting effects to 'give the bombs away' as well as the possibility of baing abla to see the tops of bombs from a distance Interesting stuff, non?

The only other mejor foreseeable problem is that, while a split-screen is possible, thera's way cut. This will probably lead to further developments in the one-playar game design

And finally from the boys. having written so many Blitz applications for themselves during the writing of Blitz Bombers, thera's now a good chance that thay'll be making some of their programmes available to tha public. Lack out for Blitz support softwere in the neer future.

Evan more good news: Do you remembar Legenda? If you don't let me recap Krisella planned to release this promising RPG but shelved. Well, it looks irka Guildhall Leleure will

be releasing it soon. So we've got that to look forward to Another snappet of good news

is that despite the recent diseppearence of softco Resputin top-fun platformer Roffien will still ba getting e release - elbait ona through mail order - complete with a couple of tweaks such as new and improved

music, improved level dasigns and the facility to customise the mam controls. Hurrah

There is a demo of the updated varsion of Rufflen on the CD-ROM covermounted on the CD edition of this menezine. So if you have the CD-ROM addition cheers, if not you'll have to wert

Some sad news though This waak, howevar sad news concaming 21st Century Yes, though wa've been seeing each other for gnita soma whila now. the spark has gone from our relationship, and they've just rning to say that they need a bit of time and space to think

My out fealing howavar is that they're about to chuck us. So It's back down the games disco to try and pick up a new chick, but at least there's still Siem Tilt to look forward to before the big heave-ho.

It would appear that the only games we're likely to see from the 21st-arers in the feture would be budget releases of old games - and even that would

more likely then not ba processed through an affiliated label such as Bit Soned or KIXX. Still wall wait and see How many times have we heard that from compenies only for tham to come back onto the games scane with an Amige game just a few months letar

A particularly unfortunete bit of news this month, comes from long-time Amige supportars Kompert, where the loss of the Blue Byte inbal (nerly lest year) appears to have done more dam aga in the lonoren than they realised, with the company going into valuntary liquidation

Kompart have proved extramely important to the Amiga's game scene over the past year, especially with its publishing erm. Black Legend, who manegad a number of European. devalopers and ultimately brought us such hits as Tactical

Manager and Football Glory And there you have it - just time to glance at the HMV cherts bafora turnino into a pizza. Be seaing you. Mett Broughton

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# OUTBRE PAUS JULIA GA FROM ILE NE JANA TOF VIEWS ATTACK

With new technology comes a new threat from viruses. We explora just how big is the problem, how has new technology affected its penetration of the Amiga market and how to protect against it ...

### What is a virus?

For those new to, or unfamilier with the term, don't paine, a Visus is not falley, it's only a computin program Howevis, or any a computin program Howevis, or what's not to say; if an of dangerous, or even that't doesn't within the like symptoms. For example, like a real life virus, a virus computer program replicates aftel if every opportunity program capits of fiself to every disk it comes into contact with Each of these contact is the same as the ongrant, and will continue to by a proceding, law viriality.

Some viruses held in the boot sectors of floppy disks. The boot sectors are special because when the Arrage is test and a flooppy disk present, it autometically loods in these boot sectors and runs the date they contain as a program. Normelly this program triggies the loeding of the Workshork or leads a game, but if a

Waikbench or loads a game, but if a virus is stored there, it will be loaded into memory and executed. As the Amige is an excellent multtesking systam it can lurk for ages, waiting for a new disk to be inserted so it can copy itself to its bootsector. This is how they spread.

If the newly inserted disk is a game with a custom bootblock, the virus can overwrite it end therefore make the

hard reset would solve most problams on a floppy disk based stem as the viruses could only ive on disk or in RAM. Now though, herd drives ere Increasing commonplece CD-ROMs come with 650Mb of files end the 'net is a gigantic breeding ground. The emount of damage to be caused has multiplied A virus can be a big problem, or it can be an insignificent one. In a worst case scenario, it can dastroy your softwere collection, re-formet your hard drive and even patentially damage a video monitor. Plenty of source stones abound and newspapers love to run half-fact half-myth stories and this high tech scourge is ideal press fodder Although viruses were big news on Amlga soma years ago it's now other systems that are being tergeted. Even Bill Gates' new 'safe' opereting system Windows '95 was soon at risk suddenly word processing documents began to act independently and data-

bases lost their data

amount of damage they

caused was largely limited. A

disks but



more damage some are programmed to perform various nesty acts after a certain amount of time. Some viruses will corrupt or format a hard disk for example, some will put up initating messages on the screen or make the

A bit sneaky

Some strains of virus don't require booting though and can sneak into your system in venous other ways. Some disquise themselves as namel programs in your c. directory, some misuse the operating system's disk validation system.

The most common way in which viruses used to be spreed was through pirated games and damo disks - disks which needed to be booted, Often, users would perform a werm reset (Control-Amiga-Amiga) after loading a demo or game end

thing else instant infection It has also been known for a wrus to pop up on magazine cover disks. I was caught out once with the Saddam virus when compiling a disk for an Amiga magizine (not this title, of course) shout four years ago. It was an uncleasant expen-

On the 'net

With the rise and rise of commain general and the Internet in particular the opportunities for virus as to spread is ever greater The Aminet is the definitive Amige software site on the Internet - if you upload a program there, it can be used by thousands of users all over the world in hours. Needless to say that the keepers of Aminet make stringent antivirue tests. Bulletin Boards ere an

Free love, Safe Hex Safa Hax International (SHI) are an international group, dedicated to trying to stop the spread of computer viruses, is their own words, SHI is a green roots movement, started in 1987 with Amiga computers. Today they are an organisation with around 600 mambars, who are all more or less involved with the project, it's a sonprofit mehiag organisatios and their motto is 'Safa Hax'. The facilities they provide include a virus bank coatsining more than 1800 Amiga and PC viruses for supporting good sharewere antivirus programs (halping people get money lost by virus infection bach by programming anti

virus products) and releasing the newest and the best virus killers arouad from wall knows programmers worldwide. There are more than 35 PC and Amiga 'Virus Casters' worldwide where you can get virus help by phoe-Ing their Hotling, or by contacting them on the SHI World Wide Web site at http://www.eslborgsa.dk/~I1g/SHI.HTM

excellent source of software, but can elso be potential risks. Many boards cater for a vanety of machines, and meny are run on a PC. The PC sysops. mey not have the tools at his disposal to check Amege format uploads for pasty extras, so be extra cereful when using download programs. DMS files are risky, as they contain a snapshot of an entire disk, including the boothlock date

On disks CU Amiga Magazine tests its disks every month and it's just as well. Although people who supply us with softwere for disks have no idea whatspever that they ere carrying a virus. some of them do. This is easily controlled with standard disks, though you do have to make sure that you have proper up to date softwere to check for brand new viruses But with CD-ROMs it can turn into a nightmere Although Mat checked the contents of this month's CD ROM (see special edition magazines) as each component was put on the disc, when it was fully compiled another check rayasled two viruses: 'Ehols' and 'Happy New Year 1996'

VirusChecker, the program Mat normally uses to check for them did not discover these, but efter heving some minor problems with various files he checked the disc with Virus Z. (on this month's disk) and there they were At this stage they had infected several hundred files, multiplying like wildfire Virus Z located and recovered most of the files.

clearing up the infection Luckily Epole and Happy New Year 1996 ere not dangerous, they are not intended to do any harm, only to inflate the eggs of their creators. But because of the wey they were programmed they caused hang ups or gurus in some of the items on the disk. However they could have been worse The trick is to use the most up-to-date softwere and even try running your disks through more than one virus checker, just to make sure it's a timely coincidence that we were running this feature at exactly the seme time as we discovered these viruses, we're always vigilent with our disks and haven't had any problems for nearly a year before this

Good news The good news is that clearly, the virus

threat has diminished from a few years ago, when every magazine Q&A postbag was full of distraught users asking why their disks had been re-named 'Lazarus' (a perfect exemple of how a non-existent virus got the blame) Baising the awareness of users and good anti-virus tools have made a difference and virus related disasters are

What they say:

mate ftp sites run careful checks on all uploaded software, aminet curtainly does

(A Usenet user)

The only problem to have had with a virus was when my

(A Useast user)

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In a perverse way the lack of new Arnige viruses can actuelly be seen to be a bad sign about the state of the Arriga No-one is graising virus proturned their attentions to the PC is indicative that the Arriga is not as hip as it once was Let's just hope that when things start rolling again we will

leave virus writers behind Don't get complecent though As mass storage media and the net take off on the Amiga it the threat is still ever present. As 'Happy New Year 96 programming them. An even bigger threat lurks on old disks and untested programs from BBS systems. It can only take one virus on a disk you forgot to test to infect your entire collection and potentially wipe out years of work Be vigilant!

### How to prevent an attack

The best cure is not to catch a virus in the limst place and the only way to be safe is to leave your Armiga switched off and naver insert a new floppy disk In the drive or use a modern. But hey, it's not an progresst! Everybody uses risks and a lot use moderns, so here are some handy hits for safer hex · Don't touch profed software Not only is plrating software illegal and damaging to the Amige market as e

Recommended anti-virus programs These programs make use of the special SHI anti-virus libraries and are therefore recommended. You can obtain them from the

Aminat (a)thar the Internet version, the CD-RDMs or any BBS which keeps the CD-ROMe on-line) or from public domein libraries

Virus Chacker by Johan Veldthuis Virus Scanner by Gabriele Graco Fides Professional by John Lohmayer

Fidas Checker by John Lohmayer DMS by Michael Pandec, ParCon Softwere D. Copy by Stafan Bernbo

X-Xopy by Cachet Software (commercial) Disk Uta Copy by Alchamy Softwara

Ktruder (a BBSI) virus killer by Martin Wulffeld Harboot virus analysar by Martin Harbo

MT-Copy by Gert-Jan Strik whole, but it is the prime way in which viruses are spread \* Use the most up-to-date Virus softwere you can find, Use it frequently If you have a hard drive keep it running

all the time . Be especially cereful about using public domain or shareware software you have downloaded yourself. Test the files with a virus checker ·When using a haid drive you may

want to deactivate it when using software you are wary of You can do this from the boot-up menu Ihold down the two mouse buttons)

· Make reguler beck-ups. Be careful to make several generations of backups in case you unwittingly back up

Infected files and overwrite your older (but un-infected) back-up. . Keep the write profect tabs on your floppies open to stop anything writing to your disks without your knowledge.

. Switch your Arniga off between

gemes and keep the power off for at

least 30 seconds to make sure notin-Ing is left lurking in memory . If you use electronic med, bewere of worning messages about certain viruses (for example, Good Times) asking you to spread the word. In this case it's the idea of the warning messege itself which is the virus as it is spread excured the world by womed users keen to warn their friends

John Kennedy

Here are some examples of viruses on Amig

ABCAEK/Odie-CC W/MicroMester HIVAlies

LGSS

Big BossBlackflash Blade Reports BLFBlizzard

Butonic ErrorByte

Byte Parasite Byte Warrior

Disaster Moste

StarFini/NorthStar

Warness X-Copy

### What they say:

Chris Wiles of Active Software (CD retailer and 'net enthusiast)

Ara Amiga virusas as big a worry as they were?

Not really - the "hype" or wony that surfaced with virus problems has died m the lest two years. Beginners and new users elways worry, however They imagine that a virus has entered a disk when they encounter a problem be it a read/write error, non-dos disk or simply the fact that a program is not installed correctly

There is very little chance of finding a virus. Probably about one in every 1000 disks you bought may have a viius, maybe less

Despite general opinions, major Public Domain libierles are usually very virus-fine. Simply because programs ere checked by BBSas, the Internet, submitters end then the There are two ways of preventing

virus attack\* 1. Ahvays keep you writeprotect tab UP on a floppy disk 2 Keep a virus checker in your W8Startup drawer on bootup

Has the internet made any difference?

There are very few virus problerns on the Aminet - not sure about the Internet in general. The cuys behind the Aminet end the Aminet CD e (end, indeed most CD'stl) check and double-check every file for every kind of virus. There will be problems on the internet - but if you take the recommended precautions - you will be safe

Does fewer new viruses meen that the Amigs is doing badly as a computer?

I think that the Amiga has 'had it's day from virus mek ers Most are corrupt Individuals who like to attack the messes. They target business users, console makers etc. I believe 'they' would love to get a uncontrollable virus rnto a console geme, mess market PC game etc. . once it has installed to your hard drive then the

The Amige is much more an enfhusiests model at the moment. In

destruction starts

the future this may change with the 're-invention' of the OS and main CPU (RISC), but for now PC is the target.

Have CD-ROM compiletions made the threat of viruses better or worse?

Bizarrely a mosture of both. Better as there is generally much more control. As stefed before, the Aminet CD's (as an example) are tested and re-tested for yrnises, so the chance of finding a mmmal It has made it worse due to the fact there are SO meny files present on the CD and therefore increeses the chance of finding a virus For mstance, if a company decid-

ad to throw together a games CD in

record time (I a starfed in August for October release) they will not have time to test the CD properly never mind fest and re-test for viruses That could be a worry. There are many smaller companies fromg to jump on the CD bendwagon as quickly as possible - my

massega is just make suit your CD's ere as free from viruses as possible

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# Wallace &

## The right computer

hat do the Crunchia Ad. Frank the Tortoise end the superh Wallace and Gromit normations oil have in common? Apart from the fact that the all came from the Aardmen Asimations stable, they were all done on the Amiga. Not a lot of people know that We spoke to Glann Hall, Aardman Animations' Technical

Director to find out more.

It is the Animator's first choice.

We will stay with the Amiga

just as long as we can keep

Nick Park's latest Wellace and Gromit animetion has won yet another host of awerds. The Amiga helped make it possible. (We're so proud.)

C When did you get involved In work on the Wallace and Gromit asriss?

A In 1986 Nick Park, had joined Aardman from the National Film School, and was trying to get his film finished. Peter Lord and David Sproxton, far sighted folk that they ere, let Nick finish his film in the studies. It took enother three years, and in the and A Grand Day Out was finished, end subsequently got an Oscar nomination. That year,

influence ever your work in the making of the Wallace and

Gromit films? A in the production of the recent team of animators. He wrote the script with Bob Baker the Bristol based writer who femously invented K9 in Dr Who, and drew the storyboard. He oversaw every single model, animated a huge amount of it all himself and spent loads of precrous time helping the other animators to get the look of the film the same all the way through. For Nick II is total involvement, and I as long as I have never known him loose his cool. He is a great guy to work for, and when he and Peter Lord work togeth er, really exciting things happen.

Yas he has influence in the same way that all the animators in the studio do. It is very important that the equipment and ways of working are driven by the animetors themselves. so I spend a lot of time finding out what they want, and how they want it to work, then we try to make



# Gromi



Q So what aquipment do you unn thon?

A We use Amion 4000k with 230Mb HDD and 6Mb RAM. We also have stendardised them for all our Apple Magintoshes. The crucial piece. of equipment is the Personal Animetion Recorder from Digital Processing Systems. We also use Directory Cous end Sunuse 19.

Also, we've modified the our own set of remote controls, the Digipod These ellow the controls to be very robust so they can be actually.

Q. Why did you decide to

uan Amigas? After testing verious systems, Ammation Recorder on the Amige worked best for us it has its origins the newTek toester, end as such was cost effective and available. Before similer products on the Med. We had bought a Radius Video Vision studio. which we still use and heve test updated The PAR is different as it is

the video system sits entirely above the computer bus This means that the attached PAL video monitor gives a full screen picture. We use two cards both from DPS. The flist is a capture card AD 350, which usefully will

in ISA BUS PC, this connects vie its own CVE cable (componi video exchange) to the PAR curd itself. The copture card has excellent quality video, can hendle composite. S video and beta video. A full set of processor amps gives total control over the signal and the PAR is connected directly to an associated hard disc which can support two IDE drives. This system can thus grab video in real time store it in full colour and give immediate repley. Handily, the software control can support single frame grabbing, and this is the mode

The hard bit for us came when Commadore hit problems. We have bought every new system we could get our hands on end a fell few sacondhend, including an old A3000 that

Who the hell does Glenn Hall think he is? A right Aardman Many thonha to Glonn Half who ofter sovarial attempts to avoid bains plown up whilst attending recent Government pro-gramme in Loados tooh time out to enswer these quantions. So Now did he get involved to all of this?

o How did he get involved to sit or tests "I stated in alectronic angleaning, working mainly in theatre and television gitting and control systems, lockeding the inst computer coatrolled lighting systems. Ble took me into the sace of working in anaufecturing and designing lighting upulpment, end thus into process centrol or theatre and meaufecturing. Around this measurement of the same than or theatre and meautacturing. Around 7 ms I was lucky enough to work on fea-ure film special effects, including some ink Panther films. 1980 brought ms to ristol, where I joined the Drama spectment at University of Bristol, who when the man identification is the proper state. ht stage lighting and theatre crufts, suggit store ignuing and theatra crarts, and thas one day I met Dovid Sproxton from Aurdinas Anthrations. I was doing a fair amount of freekinch work then, including film work and Aurdinan made a commercial, that first, festuring dancing bones to make a computer keyboard. They restred the University theatre is the long summer.

bresh to about the commercial. I got involved and this led to my working on this seminal pop vides for Peter Gabrial. Sledgahammer, Bolieva it or not that was about in via cloye, with the aids angle should not the advantage of the lipiand Aurdonas full time is 1986. with a brief to extend the use of motion control end computer in the film meking process. Next up wer the creetion of the famous skelston for the Scotch Video Tope, which sew Aardman working with Bill Mather, who want on amongst other wondrous spots, to create those descing

The programme Glonn was attent The programms Glorn was attanding, information Society bilative, is being set information Society bilative, is being set inside the programme of the programme

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whole the stol vented unt of it premma the. Nick it

ong ss i ue cool togath e same hin stuat the

g aut make



still does good duty. We elso have e few that are PC based – we had to do this when we just couldn't get any America.

### Q How dose as seimstice get from beleg just as idea to enimeted pictum?

A Well it starts off with a script and then taking that script through to a storyboard. We look at the ideas to see how it can be done. When the storybourd is done and has been agreed upon with the advertising agency (if it is a commercial), then the modelmekers end set builders start work. The technical team begin work. on special rigs to hold the models, or to move pieces. Sometimes I make computer controlled systems to link the whole thing together Most of our work involves motion control, using computer based systems to move the small sections Extra systems, often based around Toshiba PLCs (Programmable Limit Controllers) are used to keep everything in synch

A voice track is recorded and this is broken down into phonoises by e film editor. The enimators use this as a guide to get the lip synch right. The camera department essembles ell the equipment and tests it, than the camera essistant on the job

then the camera ess tant on the job will do a hnal film test on the set before the shoot starts properly

■ Q. Whem does the Amige come is? E.A. We set up a model and view, it with a Michaell Simmic camera which is fitted with CCD video assist. We just a sample frame mit or 8 Pensonno frame sotion then guido a frame mit of a model of the state of the

ou film and do n all again and again and again 25 times per second of the sished film. This mostly takes eround 10 to 12 minutes per frame

Q. Will you atlok with the Amige is future?

A it is the enimetors first choice Until very recently, when DPS brought out a new version the Perception Video Recorder that runs with Windows NT, it remains the essential tool for us. We will stey with the Amiga just as long as we can keep their going.

Q. What future projects do you have lised up

Oscar, oscar

Aardman Asimetione was formed is 1972, by two echeolkide Devid Sproxtoe and Peter Lord, Their home made seimstices warn spotted by a BBC TV producer who promptly gave them a spot on Vision Oe. From here they developed the unforgettable Morph series. The compsey grew sed gmw sed, sow based in Bristol, has won numerous awards. There am too many to mention hem but some of its most soted successes lackude the Creature Comforts, Crunchie ed, Sledgehammer video, Lurpsk eds (little mee with tromboss) sed the Infamous Wellace and Gromit series: A Grand Day Out, The Wrong Trousem and A Close Shave, At the recest BAFTA ewerds, held is Losdon is February of this year, A Close Shave wos a host of ewerde iscludieg: best film over fiftees misutes, beet ecessrio, public choics sward for favourits film sed public choice award for funnisst film.

■ A All sorts really Nowadays there is too much work for one person, so the whole team work together. With many projects either shooting or in development at the same time, it is

After testing various systems, we found that the DPS Personal Animation Recorder on Amiga worked best for us.

all a lot of work, and we have a great deal of fun putting it all together. We also get e lot of visitors and we try to apend time with college students, and even on the phone to help budding enemators where we can

Lisa Coillee





CD-Write



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Aminet 10







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# **ScreenScene**



It's all gone a bit pase shaped at the moneset as you will see from the vest, dark ampty spaces opposite. We find ourselves sandwiched in between Christmes and Easter with this issue and thus our games pages may be described as at best sparse, at weat rether empty. But we're not compliation, we'd do gut an exclusive

look at one of the hottest games of the year, now in the final thross of development: Chook Engine 2, while Lies travelled to the snowy south west for an exploratory visit to the busting development becomen of intersect Developments. She same back google eyed: Find out why on page 42.

Watthrover is the leaf review this mouth and by ell accounts it's a deceat shoot "on up in the Commando mould, though its looks are definitely all Chaos Engine. World Golf is a ministum Samible Golf, if each a thing were possible white Promise Memayer 3 Deluza systems and related young door, Sami's also all the subtillation systems of the property of the systems of the systems of the same charts in Many and Salip Tipa with the added bosus of Zerowolf 2 Jelo.

News just in from Time Winner Interactive should place SWOS first thing and dwing a special office on the \$5.76 edition of the game. Basked if year've bought to lie that vertically year are upon the state of the s





#### Previews

The Chaos Engine	
At the Crossroads	

#### Reviews

Slam Tilt Pinball

Watchtower	
World Golf	
Premier Manager 3	
Doluvo	E4

### Tips & Guides

Vampyra	
Snip Tips	
Zeewolf II Tips	

# The Chaos Engine

#### ■ Due: May ■ Developer: The Bitmap Brothers ■ Publisher: TWI Ø 0171 391 4300

I and Mrs Bitmap must heve had very active bedtimes in the sixties and seventies I counted at least 15 young man in their office, mostly around the same age This puts most Catholic fam. ilies to sheme in my opinion. To name but a few, there was Simon Brimap, Steve and his brother Richard Bitmap, even their sister Abi Bitmap And these are just Engine 2. Sister Abi set up

But Liest. They are not in fact related at all Despite my disappointment on this score I had a good chat with Chaos Engines' liclularly challenged, Smon Knight, Bitmap Brothers' Colonel Saunders without the beard. To my immense surprise, when I arrived in The Bitmap's Wapping interview, Simon was showing it to samebody else! Another magazine? Had I been cheated? No. some geezer had just walked in off the street and they thought he was Alan Dykes Haven't they heard it's dengerous to talk to strangers these days (much less

The Chaos Engine 2 was flist revealed in Spring 1995 Before this there were only rumours that a new version was being done.

Is your life too celm, too peaceful, too bloomin' boring, in fact. You need some excitement, what you want is a bit of chaos to shale things up. Well, you could get it sooner than you think...

but the first one was so successful a follow up was mevitable. The plot of the game revolves the Baron's quest for the Cheas Engine, heart of the first game, which got blown up and spread to the four rarts of time. Now the Beron. wants it back in one piece and he has hired merceperies to do the tob

In the first game. two player mode affair, fighting side by side to defeat the enamy. Even in one playe mode you had assistance from the computer who played the secand character for you. In this game however the emphasis is an competition. The screen is harizontally split which means that each character can operate totally independently. The idea is to colkill as many baddies as possible

and make it to the end of the level first. The key to the change in emphases is that you actively try to kill the other character and steal their knys etc. to defeat them Each level has to have

able to see the other character s movaments, or else return to the old style single screen. The computer characters have their own advanced intelligence and the This can be done in two player Brtmaps claim that this will adapt to the experience and style of each individual human playar The team working on Chaos

includes Simon himself who is the game designer, Steve Kelly who has done most of the ingame programming Merk Vice programmed the intelligence for ters, Steve Carglil who has been doing support and systems propramming. Bichard Joseph who

mode or as a single player in the

latter form you can retain the son

screen, in which case you'll be



A Bejs accessa opiciole sodopondonile, all'avveq acc player to non-what il e other es up to.

All the non-weak de ton.







A Brigard beats flower and set was abucked in other one or two player made the object in its best year approach it the enit.

was contracted from outside to do the music and SFK, Gary Cair who did the monster sprites ert work and Den Malone who did the backgrounds and mein chalcetes it's been in development for nearly two years now, so we asked Simon and Steve Kelly hor they were getting along

#### Alan: What is the object of the game?

Simon: The object of the game is to succeed to the detriment of the other playar, in all aspects, in solving puzzles in winning the levels, in getting more expenence.

#### Alen: How complicated has the Al become? Simon: 'The original system we

devised works quite well, but the headst hing is to create a consistent challenge it is very easy to make him intelligent to when he had the headst hing is to make him he headst hing is to make him pley in a responsive wey to make it fun even for pleyers that even't really good!

#### Alen: It looks almiles to number one, what are the big differences?

m

Simon: The graphics are similes shy, we've used the same vewpoint and it's based around the same characters but their size how more admission frames for each character and the boddies have all been updated too. But the game has changed to but the game has changed in changed in objective, apart from the visuals there aren't many similarities at the similarities.

Alan: Are you still anjoying programming on the Amiga or

see of the player mode the algoritis it least pase is as a the Brimaps descriting the Amiga like so many others?

Simon: "his project is something new, something new, something out of the ordinary and it is one; to do this

oldana vehicle is due to do the out. Technique vehicle is due to do the out. Technique vehicle is due to the out. Technique vehicle is due to the out. Technique vehicle is due to the out. Technique vehicle is pendient vehicle in the out. Technique vehicle is vehicle in the out. Technique vehicle in the out. Technique vehicle is vehicle in the out. Technique vehicle in the out. Technique vehicle is vehicle in the out. Technique vehicle in the out. Technique vehicle is vehicle in the out. Technique vehicle in the out. Technique vehicle is vehicle in the out. Technique vehicle in the out. Technique vehicle in the out. Technique vehicle is vehicle in the out. Technique vehicle in the out. Technique vehicle is vehicle in the out. Technique vehicle in the out. Technique vehicle in the out. Technique vehicle is vehicle in the out. Technique vehicle in the out. Techn

tmap's cullent PC oviously s

because there's a lot going on In Z and it was designed as a PC game from the outset. Besicelly this really depends on the state of the market

#### Alan: If you had to recommend a specification for the new Amigs, that would silow you to produce more games, what would it ba? Stave: More memory, decent

sized internel herd disk end a fester processor. With something like Chaps engine 2, en accelerator doesn't help at all, but with e

project like Z rt would be necessary We've been developing Chaos Engine 2 on the A1200, but there is an A500 version in devalopment to, elthough this is legging behind

it looks a bit different because of the graphics, but the gemapley and spend are very similar to the A1200 version

#### Alan: What didn't you like about the eclentlet? Why have you cut the game down to four characters?

Simon: The decision was mathymode by Dan based on the graphics, I mean the graphics, I mean the prophics of the scientific process of the similarities. Because the was enabled the space because of all the case animation fermers, we needed all the memory aveilable part to use four characters. Also, in terms of providing a real difference of the case of the control of the control

give them very differ-

ent playing styles

Alan: What are you programming it in?
Stava: In a mixture of C and assemble; Bob

Stave: In a mature of C and assemble: Roo Tievelyen who did the most ligence for Speedball 2 and for Chaos Engine on the SNES programmed if for un on this one, using C but creating a longuage of its your which the test of us be could then use and modify. The version! I saw was

way ness completion. We played through two of the flour woulds, Aztek and Future world, and the gesphots were great looking. The new aprite enumerous earliers are partitionally as the properties of the played and the

#### Alan Dykes



▲ As you progress through Chaos 2, your character passe aspaneace.



A Serve Bring Steve Brings, Sunce Stemp and Book House trings and to look like breakers



## Intersected Development

Problem: no good Amiga games around. Solution: maka your own. That's what these guys did ...

puldn't have one (a PC) in the house." aughed Intersect Tout at the suggestion that he might have used PCs at their current store of Amiga names Dedicated Amiga enthusiitself on only using Amigas for all its work Intersect Development

murky times for the Arnige garnes market use Arnigas to produce quality games and secloyalty to the Amiga is self evident as they are date miner not to let it die So we were only too delighted despite the bitter weather, to take our

down to their Torquay office lie, ioma) to see what they had lined up We're not talking multi-national software company Development but they still produce the goods anyway The sot up is simple



d. Have are seen anchoose about of the loter levels of Atropic CO Anna Manarmo always pets there liest A1200 from his flet in Torquity while Intersect a other half, Trevoc

works on the code in Liverpool

where he is currently studying

and meterial via mail, which is

how they met originally Frenk,

since the C64 days, started corresponding with Trevor when

computing. They exchange ideas

who has been with Commodores

which is in the latter stages of development: Tilly A puzzle garne which will will compriso of a massivo 100 levels and an editor so when you

exhaust these you can start on your own It looks fairly basic, a little sphencal cheppy races around a maze set up, teleparting bid to collect as many pick-ups (the usual sort treasure chast, maybe not) as possible

The four other games we talked about Nevok, Phasic Dominions are currently in the early stages of development Neyck and Alternate Futures will both be sci-fi based pletform games Neyok Frank says will he "samewhere slang the lines of Shadow of this Beest" It is actually New York in a future world where the garth has been wiped after nuclear burn out and it's up to the hero to leap through three "huga" platforms world Alternate Futures continues elong the same yein, only the story centres eround a



A Revola's trian surrous was conduced in Leghoffers and the surrounded doors's do it pursue here Serry felice.

he wrote to him to got the source for AmigaNuts Games galore

The first pipiect we were shown that we previewed this scrolling impressed by what we saw it how it had developed in the leter stages. The scrolling shoot 'em up which will have six levels when finished, is now neering completion. All it's waiting on is a tidy up on the collision detection game, Franks states that "What is so smooth everything happens at 50 fifty frames a second compered to other games which,

Next up we were given e sosak preview of enother game



back in time rathor than forward. Physic. de Tilly in feeding the it well be finished before Atraphy. Reviews, there is a publisher for it yet. Distortion, a triple playfield, eight way scroller is back to a maze/puzzle-type satup where

How do they do that? you have to race around collecting prototypes Finally Dominions, How you might ask do two men. one based in Liverpool, the other

move towerds RPGs. It will be a senes of three point and click Torquay manage to keep Idees games featuring a hero called and productivity going? It's quite simple really, according to Frank It's all thanks to the unique game All these games will be AGA engine we have developed which only as Intersect feel that they makes it simple to get a geme couldn't echieve the same quality idea into action. The angine is central to everything we do, we

A 19th will have a 190 levels and just when you thought you'd believed there's no relater

ProTrecker OctaMED is too slow

write a geme around it because it can do what we want without tekfor playing beck, we couldn't have put it in the game as it takes too So what other software do much time and we'd end up they use? LightWave DPaint, and Personal Paint are used for the grephics and ProTracker for the

We left Frank funously sound Tony Horgen paled at the suggestion that someone should use something other than OctaMED though Frank replies that: "A guy called Lea Smith did ell the music for Atrophy using

working away on getting Atrophy and Tilly finished so wa should a review copies very soon. At the time of going to press OTM hope to Atrophy on the shelf by April Lies Collins

# **Slamtilt Pinha**

Due: March Publisher: 21st Century Entertainment @ 01235 851852

great pinball games on computer? Unless I'm greatly known for their pub pinbell cold it gets up there, and how expensive pub donks ere it's parted company efter three very linked up with a company celled This was bundled with the Magic pack but looked unhaished, unpolished and generally

with 256 hi-les grephics, is a

man's land"

into the office a couple of weeks ago with Slamtilt. Four tables programmers are Liquid Design

they've metched, if not surpassed around Demons, Space Mean

Ljust hope that Slamtilt lives

up to the promise it showed in out next month

## We must be Nuts!

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14.4k modern which supports all the

#### 28.6k modern which supports all the

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The Spreythaube CD ROM pack androds the award-womans AGA Experience CD-ROM- enable Styn usine PS of Amage Fernard This CD-ROM is enabled for inspection of the Style Sty

A full classe. Squerret is also meloded in the pack. This allows easy consection of any SCS prospheral to the A1200 The peckage has all the necessary disverse is and advisate for eary connection of hard drives. CD-COMs and resmovable dals drives, such as the Zip." Drive, to your Amaga.

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## HiSoft SYSTEMS

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## Watchtower

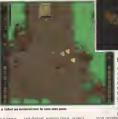
■ Price: £25.95 ■ Publisher: 0TM © 01827 312302

If you wanted tips on the following game, just try the ege-old advice "If it moves, shoot it". This would also be a good time to find a friend, 'cause you're gonne need as much help as you can gat!

pan loading ate thought that springs to mind is "Cwar, this don't 'airf laak like Cheos Engine! '- and quite nghtly so The graphics certainly owe more to the Renegade classic Howevai, aftai a few minutes playing you realise that Watchtower's contents is more akin to elderly triles such as Commendo end Rembo, not to mantion the Sensi Classic. Cannon Fodder The geme's creators

The geme's creators have marchilly spared us a hventy page plot, instead opting for the more easily digestible "hour one well-hard goests up agenst the enemy aimy in its entirety" theme — and before you know it, you're off up the screan armed only with a pes-shooter and ehimoful of greaders.

The game itself is spirt into six missions, each with a different objective and a different satisfic



leg desert, enemy bass, labeh). The muth, however, is that the game play is pretty much unchanged throughout, with only graphical changes and the odd new enemy typa making the different levels identifiable. Whether you've on level two of the, you can bet your granny's spere teath that most of your time will be seent shooting hos-

tile enemy soldiers and blowing up installations, tanks, aircraft, and. well, pratty much enything that ill react to a well



perfecting that explosion graphics – and very nice they eie too – but this is more than just a special effect, as it can also be exploited by the playei How? Well let's just say that any enemy units near exploding items, ar. . Thy ewey to maet

#### Guns, guns, and more guns

As previously mentioned, the player starts off with a full complimeet of grenades (the maximum allowed being nine) and the standard issue pistol, nemely the Desert Eagle Magnum 44 Unfortunately, this has a fewly low demage rating, a pretty pathatic range and a limited rete of fire so you'll need to find some crates as soon as possible and blow them apart in the hope of finding a batter weepon. There are a number of guns to be found, but due to weight, only one type of gun can be carried at any point. It is therefore down to the player to



become familiae with each gur's ettributes and on-acreen appaiaance so that you don't accidentally swap, for instance, an M60 machine gun – with excallent range and rate of fire – for a rocktal auncher that while having the best range possible, can only fire non socked at a lime.

The third to be a complete to the complete to

was, lists just say lost comprison on sinf advisable. As well as engaging enemy troops you can also expect to come up against some fairly senous military hordware in the form of tenks, supply trucks, and even bombers that fif veroes.





skills. As well as a lerga number

of obstacles that can be blown to

mgs and matallations that must be

scrolls slowly to reveal new areas on the map As if that wasn't

anough, later lavels are covered in

land mmes, but thenks to the fact

clear a path, there are elso build-

worked around as the screen

A hafers such mixaton pas're alserse year position on the overall namenign world map, along with a truncated held jie littl veraything!

the screen dropping their deadly peyload naht on the old noddle the ever-populer granadas will ensure that you're always in a position to reply to such challenges in kmd

ar-

the

ere

rch

stol.

The level designs are well thought out, so embushes ere freon his toes, while nerrow (not to mention well protected) bridges call for some sharp shooting

that many of the anamy soldiers era not only single-minded but pretty damp thick they can be tricked into clearing routes through such deadly grounds (and a vary good impression of Reap the As you progress through the mis-



## many rewards

ed, and if you've been a good boy. you could even find yourself being ewarded with a nice badga or evan a shiny medel. How does e Legron of Ment grab you? Or

Hononr, e Selver Star, a Bronza Star, a



Distinguished Service Cross, or a awarded to those who have died es a result of standing in front of enanty snipers shouting 'come and get it blo boy". You can also Impress your friands and family with promotions throughout the cempaign - nght through from Private to Brigadier General

#### And the final verdict is...? To be honest, as simplistic es

Wetchtowar is it sectually pretty good fan it's certainly of the 'old school' as far as game play goes - but as long as it's still fun, who ceres? The comparisons to Cheos Engma only really go as far as the presentation, the fect that you can at the same time, and the graphcal representation of the extremely questionable coms that appear throughout the geme as point bonuses Other than that, it's ell very basic in as much as you just wede through the levels killing everything that crosses your path

At times the screen can get a tad crowded, as lerge numbers of soldiars all appear at once, adding to the on-screen confusion with bullets spraying in ell directrons (though I'm sure you'll be glad to know that only once in my entire tasting sassions did I encounter commant worth noting with the screen is that you have to sometimes wart for the scrolling to catch up with your position, otherwise you'll be standing on the adoe of the screen inst as a new solder appears, which is - needless to say - a bit of a git

The choice of wespons is impressive, although phos you gat yourself a decent weapon with a good renge and





fair damage there's no real need to swap around As for the grenedes, well. . they're great! I would say, though, that due to the gema's general difficulty (le bloody hard for the most partil a faw more granades worldn't have gone amiss

And that's about it really. The three difficulty levels don't appear to do much more than make the soldiers toughar (not m intellagence, but where one bullat would suffice on the easy level. you'll need two for the medium level) while the six levels are progressively more busy and ganarally nesty. As for whather you regetting twenty aix guld's worth of value, well that's raully down to how much you personally go for bread and butter' arcade gemes. My personal advice would be to give Wetchtower a go, because while

rt ein't Eerth-shattenng, it s not at all had

#### Mett Bronghton



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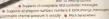






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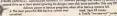
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# Premier Manager 3 Deluxe

temin's Fromer Manager sense has been on this of for donkers years and for donkers years and for years see "We pound footy games see "We pound footy games see "We pound footy any house for men'y a year was a percel thus post marked and obviously filled with a pox capated a hor for set?"

tern thay sent us was Premier

Managar 3 Multi Edit, e support program for the PM3 series. Just what could this be?

Not to be outdone by SWOS. Player Manager and Ultimate Socces Manager Permist Menager 3 has had the latest teams and league structures botted on to bring it bang up to date with the 1996/1996 seeson. The beer game remeins the same though mid they've been good enough to

supply the onginel menual, in fect the packging is pastly comprehensive it's missing to see that Grem'in airin't frying to do what is definitely, possibly, meybe there lest Ampa game on the chasp though the fact that they chim to have sold over hell' a million of the venous versions of this one progrems of armsy haves ownerling to do.

with this too The Multi Edit software

released lest year is included in this variation too. This means you're getting two programs. The Multi Edit is not a data or update sake, it is designed to operate seperately, creating save gemested, or the full program. This it does well allowing you to create you wan scanarios and even edit the on-screan text and messages. Premier Managur 3 Stands the

Preference where great a status are test of time. As a comprehensive football meregenent is mit to still one of our office few uniters, elongstate on the Bell and preference of the Bell and the Bell a

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sells it for under £20 and you're in



might do well to wert and see if Domaik's Championship Managei 2, the only genulinely new sim on the way, has the necessary occupin to tackle you by the short and curles 

AD

the mood for an upgrade it's

good value. Al £25 or more you

83

## **World Golf**

#### ■ Price: £14.99 ■ Publisher: Apex Systems © see text

upte of the month. I played the cover disk demos of Sensible Golf, and frankly I. Board of the Market Sensible Golf, and frankly I. Board Kirk of Apex Systems. Of Coultse, this difference between Mr. Kirk and most unipulsised did something should in exclusify did something should in exclusify office of the most own version of the country of the coun

It is indeed true, for here before us we find World Cup, en



comes courteey of mail ordain only for the bargean pone of £15 There ere five farmous courses to choose from (Castle Pines, Cliemesgies Little Aston, Murfeld midwisually skilled computes opponents to chellenge, end the opton of up to four human players. There's elso en suits-caddie opton, where the computer pourts you in the right control to the correct clight for you selects the correct clight for you.

interesting little offering that

The geme format is nothing particularly new with the good old power-bar meking an expeatence and, on the whole, it elf holds togethar well. The presentation is not and clear the sound effects ere as officiarly as I guess it's possible to be with a big empty field, and everything works as well as you'd expect. It's just that it's e but jumpmers(able).

The graphics are simple, but

don't really offer the player much in the way of reward, while the gamaplay is a bit too besic to warrant any striking comment. It railly is just a straight forward cross between Sensi Golf and the millions of other golf gemes we've

seen over the past few years Because it's so plain, there's nothing to rave over end, similarly, nothing to really moan about. The only possible complaint (end where perhaps Mr Kirk should have e look at Sansil is that the scale doesn't change when you get onto the green, making accution a lot less controlleble. There's also e problem when, if you ere right by the hole but technically off the green, it defaults to irons, leaving you to misjudge and tonk the ball over the other side egain (and I don't remember golf



balls bouncing like ping pong

balls ather!)
As for Mr Krk saying that he made this game because he was disappointed with Sens's well 1 timelit it's expole in glass houses' situation. Should you fancy e copy of World Golf you'll want to send £14.99 to Apex System, 8 Soaling Gate Road, Goldthropp, Rotherhem South Yorkships S39 BLU Br.

**62** 



She's mean, moody and magnificent and knows more about things that go 'bump' in the night than she should. If you are at your wits end with an adventure problem turn to

#### Dungeon Master II

I am having trouble getting the lest Clan piece from the revolving table in the castle between the specky trees. Each time I go near the table it revolves end moves the pace to the opposite side of the table. How can I get to it?

Vampyra for help.

Jim Laver, Hatfield

Would at help if i pointed out that this table is like all the tables which you found in the shops? Think back to haw you got the table in the shop to revolve ond give you what the shopkeepe; had placed at his stde? Shujid boy!

#### Maniac Mansion

I heve a walk through guide for Manusc Mension and all was going well until it said "walk to the hetch in the men-eoing Dant room and use the plant to climb into the room above." After this I was to use the telescope in the room above but I can't get through the hatch as the plant stops mo. Could you put me out of my missery."

Craig Ashton, Leicester.

## Adventure Helpline

Foar walk-through was probably written by the same person who wrote the rectipe foo Dragan Stew. It says, 'flest coleh and kall a dragon'. The crick is to first moke the plant graw by using o joe of pool wates on it. Next use a can of Pepti on it to kall it stone dead.

## Police Quest II

I'm struck in Cotton Cover with my portrar Kach and Officier Gelespi. There is also is gifl present and Yev talked to her about the blood il would like to know how to get past Blans who speear form nowhere when I go up mer When I get killed I get the messege. "make sure sights are set properly and aim gun at the target." What does this mean?

#### K. Dodd, Park Village.

Well you are saffering from one of two appliant. Either you couldn't list is a cov'l ham with a boardy white helding it to fill in the rights with helding it to fill in the rights with helding it to fill in the rights with a fill you haven't been to the rivolding range today and adjusted you eithist. In fart'l little a slappy his to be pint of your blood that that's the answe to your problem. In this game you must go to the thoulting range every day and successfully react your slights or you will die latter on.

#### Operation Stealth

I bought Operation Stealth two months ago and I'm finding it extremely difficult. I have pessed through the four labyrinths and have ended up stuck in an office I have no clue what I'm going to next I have a listle box, a watch, an electric cable and a pan Can you help me?

Alexandre Valerio, Portugal.

PB assume that you are in the

Polace. If this is true and you are in the affice with the statue, then vater next more is to 'operate' the orm of the statue to reveal a safe. You can naw use the little box on the safe, and operate the on/off batton to switch it on Operate the up and down arrows antil the first light on the hox illnmingtes. Operate the validation hutton on the safe. Operate the up and dawn huttons until the second light on the box lights up. (Do this again for the third and fourth numbers). Operate the on/off switch on the box to switch off and take it. Overste the valulation button on the rafe again and it will open. Drakkhen

#### Drakkhen I have the eight tears from the

Drakkhen Princes and Princesses but there is mention of a ninth hidden tear Where is it?

#### Aten Goodridge, Barnsley.

I cannot tell I lie, I don't know. Maybe a reader could help if they knew. Haweves, I do know quite o few elever tricks for this game, so I thought at least I would help you as much as I could When you ereste a character and it asks for a name use 31415927<Return>, Naw type SUPERVISOR<Return>. Cantinue as normal and you will get a very powerful character Once you have done this you can press F10 during the some and your Magic and Hit Points will go to maximum. Even better, press and hald F9 while you rightclick at the bottom of the dialogue window. This calls ap Supervisor mode. You could now summon any monster by 'chcking' on their names hut I wouldn't recommend that! Release F9, press and hald F8 while yon agoth click in the same place and your charactee will be miraculously changed into a supre-hero. A bit like me realty.

#### Monkey Island II I need help to get a map piece which I believe is under the cottage on the small island off Phatt

Island but the bloke upstances giving me grog that makes me incepentated I have tried emptying my mug on the tree but the guy keeps refilling it who sown. I can't think how to we this so-called compatition. Please help?

#### C. Dutton, Clwyd.

If I had a penny fos each time someone tried of pen "lacopasicaled" by foreing, me to drink two much 1 would be a cick girl. Hoppily it's me who usually rades drinking from the 'mag' who vo The triek in the tot left gany coalist that you never a rapity gless, because they jour fift it was galas. What you must do it empry and may a first the tree, then speicht fill it my with near-group which isn't alcoholic.

#### Simon The Sorcerer Can you tell me how to pick

up the woodworms so I can get the steff?

#### Lauren Eemes, Gillingham.

You don't pick up the woodwarms you faolish child, you talk to them and they tell you things. Which reminds me, do yan know why good are called birds? Because they put up warms.

If you've got a little problem with your fewourite Role Plaving Game and would like Varing to help you out, drop her a line at CU Armas Magazine, Priory Coord 30-32 Farringdon Lane London ECIR 3AU





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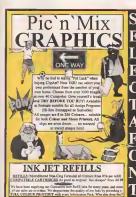
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# **Snip tips**

78

20

30.





ROOK

GNEA

C WB

GAMES

Poor Matt hasn't been very well this month, but he's dragged his limp and lifeless body Into the office (where he fits in nicely in that condition) just for ell you needy readers

....BEHAVE

MAX FUEL

.0EADOW

FELPAY

**Guildhall Leisurs** Richard Donnellan from Oldhem has found a way to make an easy billion or so in this top recing geme. Get a pessword code such as LQFONTULRI (this will get you into the second scenanol and switch the sixth and seventh letters For example, LOFONTUL-RI will now become LOPOUNTL-MY Enter the new pessword and you should complete level 2-1 with eround \$4,000,000,000 You can also try this out with the other password codes although it works with some and not others.

#### Zeewolf 2 Binery Asylum

The up to date stuff is now flooding in thick and fast and J Mc Mehon from Lanarkshire starts us off with level codes for this top

niii sa	Со
	Requi
3	
4	Fullmoo
	Oursga
6	Sta
tf	Krake
14	ststic
16	
11	STATIFAUS
20	DO IT NO

And Chris Hends, Shropshire also helps out with even more level codes for Zeewolf 2 23..... RETFORCE



genn Zoossell Z, you had! My propers are an

#### 31 DOMINO STEERDART

#### Alien Breed 3D Teem 17

'Not enough of the recent stuff eh" writes Mick Slingsby of Leicester as he defiantly sends us in his level codes for Alien Breed 3D. Thank you Mick and thenks elso to Derren White for his help. Anyway have they are

lava.	Z		C10	OFF	JERI	PER	Œ	FF
leve.	3		.MZ	008	DEO	PPI	FF	77
fore.	4		KP	KOF	OFOR	OER	œ	FF
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Level tt . DECEMBER LINERS OF THE PROPERTY OF THE PROPERT taxel f1 . MCTGGNT, DNA ANEOND Lovel 12. LNIECOLFHAAREOND Level 13 CIMOFPRPHABIEOND. Laurel 65 ... SOIGLMKFNAAHEOMD

LEEOF FEFNAARFOND

....GHAEPPKPNAANEOND

#### Streetfighter II **IIS Gold**

Level 15

Luxel 16 ......

Select a one-pleyer game and position the selection box over Blanke but DO NOT press fire Instead slowly type the WORD FATIENCE

should hear a digitised votce Cheat Now select your charecter and start the game Note that you do not have to choose Blanke es

your fighter

When fighting press F10 at any point during the game to regionish ell your energy. Also pause able to play a two-player game egainst a friend as the same character Well done Mr Mark Wedham from Cornwell

#### incidentally, does anyone romember the old game that used the Lotus Esprit Turbo Challenge

cheet 7KIDS7 Hmm

Gremlin Mr Wadhem once again provides the bread. Enter the following names in a two-player race for 1) FIELDS OF FIRE

ZIN A SIG COUNTRY Also, for a hidden sub-game enter these two names T) MONSTER 2) SEVENTEEN

#### k240 Gremlin

On the main esteroid screen press the return key and type in 'Loadsadosh' pressing the return key after it for a smell sum of money This can be used as meny times as you like to amount to a large sum of money Cheers to Mark Draper, Stockport

#### Road Bash Electronic Arts

Mark Wadhem, strikes oain Just type in the following code to receivs \$7,815,000 00001 04310 Meorc 17FFM

#### Worms Teem 17

Here are few tips from David Minnis, Humberside for that all formet fevourite game involving hermephrodites with weepons Sheep mode: Type TOTAL HORNAGE (two

words) on the main ercees and



A Best the tailing prace as level two, siese and



you get a begans bomb, three sheep and a minigun to start with Secret move: Stend next to a worm (not your

own) and then press away, away, towards, towards then do a prod and you get a secret move Two varsus two mode: Select your four players then

select two of them again (they get circles instead of sters) you ere now ready to play team

Changing friction and gravity on custom screen mode: The standard file name for a custom mep is 'name.wxyx.wxm' where w=grevity (1-5), x=friction (1-5) end v and z are sea and

colours, respectively

#### Valhalla: Before The War

Vulcen Softwere Here's a few level codes from

Linda Soul, Cricklewood, to keep veu poina 2) FUMEL 3) SOMAL 4) SANOL

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Some people have been having trouble with this great helicopter sim from Binary Asylum. Here's a guide to the first really difficult level.

Like Cannon Fodder, Zeawolf 2 is not all about flying through each mission blazing away like a medican (or woman). Your Zeawolf becomes increasingly

women). Your Zeasooff becomes incre-singly contracted on their livels as enough waspens as low to start with Level 10 is used in olds. Seasooff 2 has a staggered difficulty level white leads you little the gome with a felse seaso of secur by White you little thought 10 it teams the a dead and their livels white livels with their livels with their livels of their livels with their livels of their livels with their livels with their livels of their livels with their livels with





















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# eriou

What's in store in this month's serious reviews section? Let our technical editor reveal all. (No, thanks - ED)

#### Horgan's Organ



st wa no ata PAL/ ce of review noun

logy,

time

lu

of hardwarn and

software reviews. this definite swing towards sound and music this month, with a no-nonsonse test of the Toccate 16-bit sound card, a preview of OcteMED dStudio (the raviaw will be

Synthetics to baot! Thera's plenty of healthy activity in other erest too, with the SX32 CD32 apprade, a new video titles in the sheps of

along shortly and Aural



Limelight Tyro and another nolution for A1280 owners with big ideas in the shape of HiQ's Power Station.

Only last month I was getting all dewey eyad about the lack of innovation on the PD dame scene. when what should turn ap but a corking batch of audio visual weirdness from The Party 95 demo competition. This competition was held on December 95 in Denmark and demo creators around the world entared theirs in a bid to sen whose was the host! You'll find a selection of the best of these on the CD edition of this month's magazine, including the emezing 80Mb Dateworld extravaganza (yes, 90Mbl). It feels good to be abla to indalge in the port of luxaries a cover mounted CD allows!

All this, plus an extra large CD-ROM roundap. Enjoy!

Tony Horgan

#### Toccata

62

Given the chance, who wouldn't appeade their Amiga to full CD quality 16-bit sudio spac? Toccate offers exactly that. Can it pull it off?

#### **SX32**

66

With all that power under the bonnet of a CD32 it exame a shame to reduce it to a games machine, With the SX32 you can transform it into a virtual A1200.

#### OctaMED SoundStudio 69

#### Bringing the state-of-the-tracker art into a new are OctaMED SoundStudio could be the best thing to happen to Amiga audio. Find out more in our exclusive preview.

#### **Aural Synthetica**

From the developer of Aeral Illusion, Aural Synthetics is a complete models: synthesiser system for your Amigs. All the fun of analogue synths without the cables?

78

61

**Limelight Tyro** 

## There are times when the all einging maltimedia package is just too complex for your simple video titling require-ments, it's time for Limelight Tyro.

**HiQ Power Station** 77

Face it, the A1200 isn't exactly well endowed when it comes to drive hays and SCSI support. The Power Station offers a possible solution.

#### CD-ROM round up

You want CD-ROM reviews? You got 'em! Three pages of the latest raleases, with evarything from sound samples to software archives start on page 79.

### PD Scena

Starring the best bits from The Party '95 demo competi-tion, PD Scana also has plenty to offer the cash strapped Amiga gamer,

#### PD Utilities 87

offer in this month's bargein bucket that's commonly known as PD Utilities,

# **Toccata**

■ Price: £299 ■ Developer: MacroSystem ©+49 2302 949490 ■ Supplier: White Knight Technology ©61902 822 321

t's been the diesm of many Amage users that one day they their been day they their an audio het diese with a minemum of 16 bit bandwicht in play with, parhage seen 28 or 32 or 181 by thee will be a piece for held previous production of the diese with the diese will be a piece for third party endu upgredes, such as Toccets from German developments Means System.

#### Digital video

Tocotas is a card fail et li Amgaes with Zonia discussioning OS 2 and above it can sample and releive single channel of 16-bit seven digital eutro et frequencies up te 46/81k2, weeking from East RAM or directly from a hard drive for any device with a fest anough trensles size, such as a 2p). It's bean designed for use in multi-medie and eude mostering work. In which case the cald acts as a digital recording, rather than a sampler in a muscal context.

Give your Amiga the luxury of 16-bit eudio with a nice new Zorro card.

MecroSystem's V-Lab Motion video caid to create a complete digital video edit-

#### ins and outs

Interest and one output on the beautiful and one output on the board. The rain pinel has there 6 5mm steero jack sockets, two of which see line level unjust, the remaining one is the line level output, Located on the reside sidge of the cert are two of seed up to line sevel input, the other to make the line sevel input. The other to make the line sevel input with the Toccaria output. The sides ballind thes is thet you can here you'r Amige s

through the card, so you don't need a mixer. The relative levels of the channels can be controlled from a softwere mixing desk.



Two disks of software are supplied with the Toccata. The basic Tocceta control tools include e mixing dask front end that allows you to set the reletive volumes of the inputs and output, the sampling rate, and the semple bandwidth (8 or 16-bit). From here you can also salect A-Law or u-Law compression, which allows for neer 16-bit sound quality using roughly the same amount of disk space es an 8-bit sample. For exemple 8-bit bandwidth has a noisa jetio of 49dB, 16-bit has e noise ratio of 96dB, while A-Law or µ-Law can achieve a 70dB noise istle. This optional compression is handled on the fly in real time during recording

Simple recording and replaying tools are also included which can also be i emotely controlled wa ARaxx. Finally there are some bits and pieces for enyone who wents to develop their own soft ware to centrol the card.

and playback

main editing software. This ellows sampling direct to disk and comes with a good selection of basic editing functions but is light on effects processing tools Fortunately both Samplitude and the Toucata Tools can be used to control the board simultaneously For exemple you can monitor an incoming signel prior to sampling from within Semplitude, dreg the screen down and adjust the input pain levels from the Tocceta foois panel, with the results tak ing immadrite action. Thara's also a playlist section which can be used to string together a

sequence of semples MedioSystem are currently

Samplitude is tha

ing and playback through that card, along with 'multiplexing' routines that allow for a number of channels to be output at the same time.

working on new software that

Sound quality

that the sound quality should be equal to a well recorded CD and that is generally the case. If you're used to wresting with the



use subtle effects such as reverb without introducing a load of stepping' noise, as the steps are much finer For the same reason, you can left with a very clean

bure bess sound. Try that with an 8-bit sample end you'll be stuck with a phasing high frequency

#### **Good potential** Frequency response spame to be

up to scratch, although in our tests the bottom and of some samples lacked a little definition in places when compared backto-back with the source CD sound. There is a slight click every time the Toccate begins to play a sample and enother straight afterwards. This isn't too intrusive if you are mixing it with using the card to spool one continuous long sample in an audiovisual context. This does not happen for each sample when using SoundStudio's mixing made, as the Toccate in only opened' at the start of the song and closed' at the end See the more details on this. Overall the sound quality is excellent.

One of the reasons Toccata hee not been widely used as a musical tool in the past is that it cen only replay sounds at one of 14 preset sample rates ranging from 6613Hz to 44100Hz (CD) there are not anough steps in

ng



A 448Hz (B-bit output and starres payming for each track to possible with Inccala and the new OctoMER SuppleStatio.



Samplesed a allors in rappa of energying formats removing to either \$400 or a hard drive.

between to be able to repley a tuned institument sample as a melady although the new SoundStudio works ground this However, with sample rates that include 32000Hz (the seme as the Aker SO1 entry level MIDI sampler), 44100 (the rate used for mastering CDs) and 49000 meny potential uses for digital mastering and editing samples from externel sources. This could be very handy considering the ware samplers is very basic

#### Conclusion Toccate is more versatile than it

first seams. If you're on the look aut for a 16-bit sampler you've probably eliesdy got e good idea of what you went it to do, whether it'e herd disk audio mastering reeltime music applications audia for videa and

Third party support
Although Toccate was designed mainly for meltimedile
users rather than muscleas, it is now well supported
OctoMED SoundStudio, One of the new features of
SoundStudio is its ability to return it is truck of same SoundStudio is its ability to retarget its track of samples to alternative output devices, instead of driving the Paule to alternative output devices, instead of driving the Paule tolig directly, it can now process all of the sample date set the module plays, mix the combined result into a stereo signed and push it out through the Topcata's 48kHz

olgonal and such it out through the Toccatin's dishlet (May 10.32 feeds of samples can be nigred at some and such track can be passed to its own but passed at some such track can be passed to its own but passed at the passed in the passed to the control of the track can be passed to its own but passed in the Soriett Sallot processor asseds very slightly retary compand the slight quality standard force choused Arrigan models. The quality was part and described on the speed of Solid Processor and the slight passed on the speed of the sallot passed in the sallot passed in the speed of the sallot passed in the sallot passed in the speed of the sallot passed in the sallot the sallot passed in the sallot passed in the sallot the sallot passed in the sallot passe

Back on the multimedia side, there's support from WaddePoint, Scale and Ears and Pipes. The Affects ports of the Teccate software side oresine that you can use it with programs that don't have built-in Toccate features.

multimedie oi aditing samples for use with external MIDI gear It's capable of handling all of those jobs competently same better then others. It's elicedy panion to V-Lab Motion but its increesing support from third perty software developers has opened up its potential market to thousands of Amiga musiciens (there's even e Topceta driver svailable for DaliTracker1 While technically it doesn't compere vary fevousbly to the current PC sound cold market (dominate ed by multitimbial boards with onboard effects end more), in which light may look a little over priced with just a single stereo output channel, it's in a very diffarent merketolece so direct price to power comparisons pien't really relevant

This won't solve all your audio problems overnight but it's quite a capabla system for a number of specific eudip applications. including digital audio mastering for example For digital video work it s by far the best value audio solution, and the excellent support from OctaMED SoundStudio also makes it a tempting proposition for musiciens. With more powerful software on the way from MacroSystem, the future looks ery bright

Tony Horsen



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If you've bought a CD32 but feel limited. Why not turn it into an A1200? The SX32 provides the solution ...

### ➡ Price: £199/£299 ➡ Developer: DCE Computers ➡ Supplier: Visage ⊘ D115 964 2828

hen the CD32 was insuched it was intendisional to the state of the s

On the back of the CD32 there is a little screw-on door Go on take a look. This door opeus to rayeal a large empty space with a 72 pin connactor built in In the old days of exuberant optimism. this port was most femous for allowing the Commodore FMV card to be attached, with all the Start Trek Terminator and Jurassic Park CD film hilarity this entailed Unfortunately the big C didn't get very fer with the FMV card before going bust it berely got past prototype stage Some say this was a good thing. Phil Collius was about to release a 'Best Of' elburn on Video CD around the time they went belly up. What was thet about clouds and silver linings?

#### SX1 shortfalls

However, it had one other expansion: Paravision's SX1 This was a large metal box similer in colour to the CD32, with a socket which could be attached to its 72 nin fit flush with the back of the console forming a sort of L shape It was a God-send for those who needed a computer as wall as a console, aspecially those who like their games to look better than average - it had an RGB port It also hed serial and parallel ports. a floopy disk drive port, facility for a standard PC keyboard and sosca for an internal IDE hard days However, the SX1 must have been designed with the closed all

the time, because whenever you perform the simple task of fluping the CD lid open it logs the SX1 slightly which could cause problems, such instant crashes The other disadvantage is that

STEELS STATE

it plugs onto the side of the CD32, making for a rather awkward sprewling desktop setup

# SX32 solutions The SX32 is designed by mal Garman company CDE to overcome these problams and it do overcome these problams and it dos so in the most dispeal very using all that empty space I talked about used the CD32 It attaches to the same port but the circuit board is housed medic the CD32 unstead of the SX1's external instead of the SX1's external

imitiad of the SX1's external metal casing Lise the SX1 thera is also provision for a hard drive to be fitted and this is inside too. All that stacks out of the back of your CD32 is a 1 centimetre protrudence painted in the usual brand of attractive Commoders (Grey This bousses the five Grey This houses the five

SX32 to the outside
SX32 to the outside
would These are
Senal Parallal, Disk
Drive, RGB end,
unusually, VGA
Unlika the
SX1 the

senal port is standard Amigs 25-pin as opposed to the PC 9-pin standard

The inclusion of a VGA output is useful for direct connection to a VGA monitor but the outputs are not buffered which means that it's hot really practicel to use the RGB and VGA outputs simultaneously. Technically, if you wanted to you could view what is an your CD32 using the composite output become the 200.

A's also worth noting that you, will used a PC mountar capable of hending the Amigid's horizontal and ventrals sean rates if you instand to use the VSA output, which, in the case of the AGA CD32 is 15:30 KHz and 48-73Hz erespectively. This means that many PC VSA monitors will not work and you should be evision of they flyou own one and think that the SX32 would shot in needy in front per large flyour should be morely in front of would shot in needy in front of the state of the same of the same

#### Starting up

Installing the Sx32 is a ted more complicated than the SX1, mant because you have to unscrew and

opeu up the CD32 This voids the warianty but

A The SCE2 maline very feels
Collected fellerance to your ED22.
Not been your old prophered the neuron
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of the first way to you and that any pasted prophings.

woull be lucky if you've still got one at this stage as the is sind one at this stage as the lis sind to much of a problem. Technically speaking if you were only installing the board without a link of link, you could just am in in, but the lis no lawy to must either 10 her one of the link of link, you could just am in in, but the lis no lawy to must either 10 her one of the link of link you will be seen and the accust and the accust and the scalar and the link of link you will be seen and the link of link you will be seen as the thin and of the board to allow it to rest security. Rubble first an as the thin and so if the lose of to allow it to rest security on him you will not link you will not seen as the first security on him you can be not you can only seen and the lose of the lose of

back to normal One of the other top class ressons for having an SXS2, paint from the keyboard, mouse and Workbornich it gree you access to at that it enables you to linear RAM and a hard direc 4-8Mb of ny Laby you down the path of ny paint hally you down the path of no path hally you may be not you in a very you nose i integrated even standard CDS2 perms it real hy halps garms like Alen Pered 30, which are almost too sluggest for words on the standard CDS2.

then replace the top of the con-

#### Accelerator?

The of the byggest improvements the SASZ could have had over the SCX vous provision for an acceleration for use and out to 16Mo of RAM both their is neutlabilities for the second of the second vous the seco

accelerators would have been welcome But sadly none of this has happened

#### Getting connected I tested the SX32 with

both from CD, disk and hard Disk. And it worked perfectly with everything Limite en A1200 with a CD-ROM drive you really do heve the bost of both worlds hare all CDS and Amige CD-ROM titles will work, without takesption And like an A1200 you can comnect a ponter, run busness activates, use a modern and auf the net; the choice as yours. But the

inevitable trade off is

that some applications do require acceleration to run at acceptable speed and there is only so much speed that extra fast RAM will give you.

Also, you must remember that it is not just an SXZ you need, you'll also have to sneet in a key-board, a mouse, a maternal disk drive and Washkend- keyside all disk drive and Washkend- keyside also some sort you'll have the mouse and Workbend- ned maybe an external drive but the keyboard sin't as straightforward as it was mit 6 XXI. With the turnt you could use an old standed 9 PC AT keyboard. These cost 1 is EXB when the SXI. With the turn you could use an old standed 9 PC AT keyboard. These cost 1 is EXB with a PC all the south is PC and the single with a PC before for a fiver secondhand with a PC before to ren't). The



A Sen Prov nearly the SXS2 the incide the COS2's Pax. Suce has a hard drive and dMF RAM, which ready does pushe a difference in the matching COS2 according one of TAM. Providing for an accordinates and PCSECM would have been easily close in the cases.

SX32 has no asparate keyboard input so you have to use the PS2 style part on the CD32 itself (beside the joyped parts) PC PS2 keyboards will plug in fine but won't work, so the only option is to puichase a rare and vary expensive replacement A4000

model Bumme.

Luckely Visage mand supplying the SKS2 with both an external divers and a compatible keyboard, but not Weisheard as compatible keyboard, but not Weisheard, as one of the compatible keyboard.

Die boot into Weisheard and you can commune to use this But there is no substitute for the real thing and soons on I set you'll need part of the Weisheard system that's not on whatever you're boothing often on the whatever you're boothing of the Weisheard system that's not on whatever you're boothing often on the whatever you're boothing of bump the price you to £2528, so hunt a equal for so not AMPORE with a found a found of the whatever and AMPORE when the State of the

board first if you're sengus So is it better than the SX1 then? Well it depends on your prionties. Scannero the eds feed I can only find one for the SX1 in last month's mag) I make it slightly cheaper than this unit at the moment. It costs £B less than Visage are quoting for the SX32 and although a decent disk drive vall set you back the best part of £50 for either penpheral, using the AT part you will save more than a couple of guid on a cheap PC keyboard. On the other hand you might want something that actually fits snugly maide your CD32,

rather than a cumbersome external box, and one which has a standard Arriga serial port as opposed to a PC one. You might also want a real Amigs keyboard with the proper keymigs and names, not some cheep, confusing alternative (an AT jacked Amigs keyboard will almost be as expensive as an A4000's). The difference in price is, in the finel enalysis, only one of around EZ6-E30 Both SX1 and SX2 are up to the task of furning a toy into a valuable computation of the control of the sx8 of turning a toy into a valuable computation to the sx8 of turning a toy into a valuable computation.

#### nester way



A firm Screed 10 m you see of the CF32 game which beauti from the second board of last KAA





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# OctaMED **SoundStudio**

A new generation of trackers is about to arrive, bringing Amiga audio bang up to dete, starting with SoundStudio.

oundStudio 10 is set to be the first release of a next generation of OctaMED sequencers Although it may look just the same

at a glance, the menus have some you fancy 64 tracks of samples. each with its own stereo pan position with optional delay and echo effects? That'll do monly thanks

#### Retargetable audio bonus

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retargetable audio' In the same way that retergetable graphics systems ellow you to direct graphic putput to any one of a number of ports six different eudic output autions. Normal four-channel trackers traditionally take advantage of the Amige's built-in sample replay functions, using the Paula chip directly to replay samples from

very efficient in terms writations such as four samples to be played at once with ther two to the right. SoundStudio gets eround these limitstions by inserting a new signal orocessing

stage before the sound

s output. In effect, the

sample data is read from anywhere in memand then it's processed eccording to the user's settings, during which the samples are mixed, given a stered pen posi-

if required and then the finel stereo signal is output to the chosen destinetion. The destriction can be the Amiga's Standard audio output fboth 8-bit and 14-bit output is supported), a Topcate 16-bit output, a 16-brt Maestox output, or even sent straight to a herd drive as a continuous stereo 8 or 16-bit sample.

#### No limits

The edvantages of handling the sample manipulation with softwise routines are manifold. For exemple the Amige cannot pley samples in reverse as standard. This is no longer a limitation. Passing samples through effects routines is



A Three are the meet improvative new controls - Sucuditudie e anique restable emile forteres that break every burn provises firsts



A The notation edites makes a return to a new emproved form effor str aboraca from the fact two maps OctaMED in

now possible and although at the moment this is limited to delays and echoes, in future this may be expanded to include phase and chorus effects. We may even see Musicline Editor)

Output quality will depend on the speed of your Arriga Faster processors can mix the tracks at a higher rate, thus including more of the original sample information end introduce lass noise. The system comes into its own on a fest Amiga (50MHz 030 or better) with a 16-bit output device, such as a Toccats card A stock A1200 will struggle to achieve good reproduction of the higher frequencies which start to sound acretchy as if low sample rates are being used Good news the notation editor is

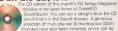
when OctaMED morphed from its custom GUI of version 4 to the windows and menus of version 5 A notation display isn't very well suited to a tracker editor (much of the tracker information is impossible to display using traditional stave notation) but some still find it

melodies in this way it also gives you the chance to output your modules as herd copy via a printer

So good, so far We had hoped to bring you a full review in this issue but it's still in development, so we'll have to wart a little longer for a full enelysis lt's looking good so fer and if euthor could be the best reason yet to

keep your Amiga at the heart of your sequencing set-up for years to come **Tony Horgan** 

#### backlit vanished when OctaMED It's on the CD, it is



selection of multi-channel Screamtrackai (3SM) modules have elso been included, which can be Inaded into SoundStudio. This is an early preview version, so everything won't be fully working at this stage. Here fund

# **Aural Synthetica**

■ Price: £35.50 ■ Developer: Blackford Technology ■ Supplier: Seasoft Computing © 01903 850378

Turn your Amiga into a sprawling modular synthesiser with this new sampla generation system.

RANGE L. J. PAGE 3. J. voui Amige, to have longed for a synthesiser at

one time or another Mayba you've even given in and bought one. The trouble with working solely with samples is that if you don't have the required sample there's nothwhat you've got. This is where Aural Synthetics comes into the picture It's like a software version of a module synthesiser, but rather than working in realtime, it renders thi sounds as samples, which you can then use in your chosen track el or sequences

#### Twiddly bits

Sample synthesis programs have but none has oone to the same lengths as Aural Synthetics, it gryss you a massive range of but tons and siders to push and pull however you see fit. Once you think you've got a recipe for an earthquaking sound, you hit the render button and wert for the sound wave to wend its way through the sequence of oscilla tors modulators, filters and other

components', Once it's all finished

A The tray worders to the unclosed namels. The betters kniew give action to the materials of association ned estions.

you end up with a 15-bit 44kHz sound sample which you can play, or have out to disk as an SAFF, AIFF, WAY, MAUD or IFF sample There's an impressive amount

of operators to tinker with You can use up to 18 ascillators along with stacks of other twiddly bits. The patch programmer section offers want to explore them If the synthesis was carried out in real time. it would be quite fun to experi ment with all the different settings. but the time it takes the render the sounds can be off-putting if you'ra not sure what you're doing you can spend ell dey generating useless sounds. Having to wait for your changes to be rundered before hearing them, can make

learning the lopes a slow process On the other hand if you do know all about modular synthesis you could generate some excellent sounds without too much bother

#### The sounds On the disk there are 51 patches

for use as examples. These ere a big help in understanding the workings of the program, as you

can modify them and compare the onginals with your versions Most of these are wend sound affects

Man Mal al Dan 5 J Leve 1 sc 4 f Osc 2 f hop 1 f Filt 2 Right | Rid Clear Flew Reinaw

hural Swithelics of . # Elizabland Technicology 1995

A Sec. if a corte social cards! Annal Sectionics affirm you to create more care 'autobre' or if you want comal than old majogra rapidin synthausurr

be used as instruments. On the impressive, especially if you like abiasiva abstract techno sounds

#### Conclusion

Thera are a number of improvements and bug fixes I'd like to see in the progrem 'Error in patch' messages are common after loading and hitting rander, when a reload proves there was clearly nothing wrong. If you try to save a sample to a disk that is full, the program gives no indication that it hean't saved the file or that the disk is full. A low grada guick-render option is elso required, due to tha long rendering times, even on fast Amigas Even with the se faults and over-

sights. Aural Synthetica is a very

enthough there are a few that could interesting and potentially useful progrem It cen creete some decent noises and if you know scope for building your own com pletely original sample sets. Union you're very patient you'll need a some idea, with a 50mHz 030 you can expect to wait around 30 sec ands to render a typical two secand sample. Rendering times van depending on the settings. Hours of fun for season synth fans Tony Horgan

#### **AURAL SYNTHETICA**

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#### Understanding synths Modular synthesis is a fescinating but beffling subject

Understanding the concepts of oscillators, frequency modulators and the like can be an uphill struggla and you really need a good analogue synth with planty of knobs and sliders to get a feel for what each part does and how it affects the others. The Aural Synthetics manual takes you through the stages of making your first sound while the AmigeGuide document goes into more depth on the subject





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# **Limelight Tyro**

■ Price: £65.80 ■ Developer: Future Software Systems ■ Supplier: Future Software Systems © 01628 24318

a stabilished software

packages get increasingly powerful, complex
the maket for a low-read introdupry stamastive starts to open up
While Limelight Tyro dosen't arrit
compote with the sikes of Saratio,
ModaPoint or Vidos Stage Pro, it
does have a few bricks of its own
to help vim the approval of the less
ambituous wideographie

Like meet video triens, Limelight Tyro uses a two-ter screen layout, one for the screen you ere putting together and another laid over the bottom which houses the control penal. This allows you to have an interlaced displey screen with a more confrontable non-interlaced control panel both wisble at the same time.

Those are three modes in which the program can be used, from novice to advanced. In novice mode, the menus only reveal a few of the total available selections. with more on offer in intermediate mode and the whole lot evailable in advanced mode it's a kind of 'blinkenng' system that is supposed to lead you gently into the progrem without confusing you with a mass of options from the start. You might expect this sort of approach with some kids' educational software, but I'm not sure of its worth in a 'grown up' product such es this.

There is also no direct way of jumping from one menu to any other With eround a dozen menus in Tyro this often means that you have to move through



A new sntry level video titler which claims to offer some powerful features but can it deliver the goods?

several menus to get to where you want.

#### **Features**

Limelioht Tyro is a fairly basic video titler The first step is to enter some text. This can be done via the keyboard or by using the mouse to click on a graphical reoresentation of the keyboard that appears on the control panel Although this seems pointless, it may be useful in very unusual such as when the program is running on e CD32 system with no keyboard. or if your keyboard was faulty There s also e disconcertino time leg between you typing the text. and the latters appearing on the screen They do eppear instantiv in the text box on the control penel but on the main screen, it takes a little longer to draw the cherecters

misspelled you words.
Style changes can be made to
the text once it's on the screen.
The usual selections of colour,
bold, underline itake, spacing and
simply as well as the screen of the same and
standard was the selection of the screen
term to produce a semi transperant
when using a peutlock. Brenspool
and Compupinghic forts can both
be used at eyr selected size.

Colour IFF backdrops can be loeded into your pages. Tyre eutomatically etters the screen mode to metch the imported image. You're free to use oversean modes on any Arriga and AGA modes ere elso supported.

#### Transitions

When it comes to transitions. Fire provides line and screen effects while their is a good selection of whee said fivens to choose from, there is nothing outstanding and these ere occasional glitches with the mars processer intensive.





A lines why you would profes to outer tent in young the wowen critics that plying is in on the implemed I'm out you. You can eyely trimply anison beyleased by Frence can before and postale.

ones. I couldn't achieve the videographer's favounte vertical scroll without each page stopping for a split-second elthough the herizontal crawl works well.

If you are using a genlock to transfer your titles to video then there is one special feature. Connect an RGB monitor to your genlock and you can set in motion Tyro's On-line and Off-line feature While in Off-line mode your video passes straight through the cenlock without any graphics showing This allows you to construct and proview your graphics on the RGB monitor without fear of them being introduce your titles into the video. just switch to On-line. And ell this happens without the need for additional hardware or switching on your genlock. This feature would especially appeal to a studio using a live video feed with the need to create titles on the fly, but this isn't really the beginner's territory that Tyro is aimed et.

If you have a low and mechine with no haid drive you will have missed out an last month's Video-Stage Pro cower disk, in which case Limetight Tyro should fit the bit, but don't expect it to add too must pizzazz to your productions.

## Norman Harris

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The History of the Amigo

Imiga Environment hat is your Amigs? Why is it so special? What is the ne Amigo Herdwore

Verichanch and DOE shall is 67 Using 1. Data and tils management. Vigrabanch <sup>I</sup>regramming JACS Rity assembly C Aming E and AUDITY assembled recemp on Artist Overnight

ration, brimep drawing enelyses scome on Amigo Music Moestra Attemed explained MICF discussed musicians interviewed Getting Your Words Into Print resing, Deak Top Publishing, Printers: Clipset etc. Surfing the Super Information Highway

intro to the Internet, Surling the Internet, WWW design, Arriga Internet Providers, Arriga Internet software. The Arriga \* Full version of Octames v5.04 General Arena inclation Operating Systems, Storage Systems, Arrigs In Test Orive' acclusive version The Amice Future

The Arrige Pullure

Where is the Arriga point? Arriga Technologiss" plans. Arriga

annual technologiss "plans. Arriga "Arriga "Vetoria" - the Limited Version of PPaint v6.4. 'Get Connected' to the Internet st you need, all ready to soll companies that will bring us procveive products in 1996. We And Finally Credits, transa and anything we leave forgotteni

#### Amiga developers, Comes with a FREE bonus beginners section with commercial programs, commercial demos and all the PD you need to Get Started, all ready-to-run, if you have an AGA Arrega with a CD player, then get this. PC multimedia CD'e are here! 🐎 And Starring! AMOS Programming Octamed in Depth DTP Printers, Cligat

The world's first truly AGA multimedia, Interactive compact disc Designed for beginners, new users through to intermediate (and bloherb levels, it helps an Amiga user undersland more about

their computer and what it is capable of. Covers many subjects from raytracing to the internet and from programming to mustic. Many 'well-known' experts and Armoa-buffs are contributing to

this CD. They offer help, enswers, tips, tricks and more Want to

know how the experts create a WWW paga? Global Internst show

flow! Stuck using Internet softwere? John Kennedy explains all. Also contains forums, opinions and a look to the future with top

Key and Dareth Draft Stave Bys

slisk magazine and much more. Centect us for licence details. AAG should be evaluable by May-Chana 198

AMDS Programme



Advenced Amige@uide for AAC) as the language that resides behind the Gel Staries interfece. It offe enhanced and powerful features over the old AmigeOrbids language. To this left of this legs in a list of the s res AAO contains. AAG socie be used in a multimedia product, interfers front-end, on

#### ADVANCED AMIGAGUIDE - AAG Feel Rendering of 9 bit (236 colour) Images

to a Stand-stone Pietform Unitie Other "Hypertext" Products (HTML Language stell Allows Text, Picture and Gardget Links as Opposed to it's Pre-decease

904 to Brothing and anywhere Click a lot and appear the occorder. Multiple Fortis & Add Colleur from 266 Delour Paliete.

Get Marted CD should be available from most good Out March 1996 the early said [AGA Mochines] £29.99

#### AAG - GUI OS VERSION

'ALL YOU NEED' SECTION Paint II Directory Daus II





New Search Routine

NEW to 20054 refer or 2 is the easy-12-use, resoly to fermet all first electronstrated in NFA AGA Esseries Allows the elirect use of PD ato

is CO-Rom. Blackboard v3 (trage munipulation) Ultimals Quiz 2

Arithmic for the CD. Remember that the programs are commercial and computer that the programs are commercial and computer that the programs are commercial and computer that the program of the program o COMMERCIAL SOFTWARE - NOT PD



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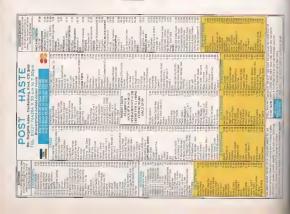
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# **Hi-Q PowerStation**

■ Price: £299.95 ■ Developer: HiQ Ltd ■ Supplier: HiQ Ltd © 01525 211327 http://www.hig.co.uk

Anyone wishing to expand their A600 or A1200 to have CD-ROM and SCSI capability should take a look at this effective device.

we problems face the A600/1200 pwner wanting to expend their mechina one concerns where to store the drives end the electrical power you'll need These womes mainly effect exten nel devices such as CD-ROMs and other SCSI devices. Hi-Q have partielly come to the rescue with their PowerStation, which although a simple device, can be highly useful for those intending to connect some real hardware to their A600/1200

#### Squirrel driven

The PowerStation consists of a rather nice PC town case, a SCSI extension cable end an internet SCSI ribbon which terminates in a connector for the extension cable The theory is that

you use Hi-Soft's Squirrel PCMCIA SCSI interface fitted to your A1200 (or A600 for that mattar) and attach the extension cable to the Squirrel's SCSI connector Most SCSI devices can be fitted into the tower casa, attached to the internal ribbon and driven by

the Squirrel The PowerStution has a healthy 200W power supply in the case This not only runs any SCSI penpherals connected, it has an Amiga cable too, so there's no need to buy a Goliath to power your appelerator and internel HD H+Q want. part of the stock power supply (AKA The Brick) back in exchange though, since Amiga Power leads are in short supply You simply snyp the connector end of the lead and send it to them. The transformer itself can then be used as

door stop, a task it's more surted to than attempting to power an expanded Arriga

Your monitor

pan also

be plugged into the pass- through power socket on the rear of the of the button. Amroe drives and monitor are all powered on or off

Audio freaks The most common configuration available from Hi-Q is the Tower. es reviewed here fitted with a Sony 2.4 speed (b) eaking the tradripp of drives being even multiples of single speed units) This mechanism featured in a pack from Hi-Soft reviewed previously It's proved to have excellent access time and a heelthy rate of able to send audio data down the this feature as the highest possihie quality samples can be obtained with no extra hardware A very respectable and post-effective mechanism to have built in HiO chose well with this Sony mechanism. Also included with the CD-ROM are two sets of RCA/Phong tacks which allow the CD audio to be mixed into your

Amics audio through the loop Annoyingly, the tower has a panel which covers the drive bays. This would have to be left open to get reguler access to the CD drive If not concerned with appearance the user might prefer to jamove it ill logether

The tower, unfortunately, is a little too deep for my liking. It will use guite a lot of desk space but being equipped with 2 full 5 25" drive bays end two centred 2 3 5" dove bays, it does at least have the requisite stor-

ege The innards of the tower generally have required A healthy cable with 5 x 50 way will be more than enough for any drives internally. The connector at the rear of the tower also has a passthrough connector so that external devices could still be looped through such as

the Zip drive which is still not evalable in an internal form

#### It all depends

Whether the Power Station is a worthy purchase depends on how many SCSI devices you went to connect. If all you want is a beefier power supply and a CD-ROM with SCSI capability then a Golisth and Hi-Soft CD bundle is £235, which is more than £50 cheaper than the PowerStation However, if you warried to add a SCSI hard drive, it without the Tower You'd need an external box and power supply. which would probably cost about the same as the PowerStation but wouldn't have as many future expandion options. In this case I'd

recommend the PowerStation

tive highly expandable system that s well constructed if a bit large, Although Amige owners just wanting one or two SCSI daylors in the forespeable future might be better served by an axternel box, the PowerStation is e good option for anyone need ing to add severel internal SCSI devices Such a set-up with e SCSI HD, CD-ROM, Internal ZIP (when available) and patheos Soft Surf Squirrel (extre SCSI speed and high speed senel) would be an admirable Amiga system indeed Recommanded =

## Mat Bettinson Hi-O PowerStation 200 or ARRA unb **benfy** папав

We've gone CD-**ROM** crazy this month. There's a special bumper edition of choice shiny discs for you to look at.



#### F1 Licenceware Volume 1

Licenceware software is really cheep commercial mail ordar softwere. The 'were' part of the name comes from the idea that it a like pre-registered range of software covers games, education and utilities, along with a few music-related disks

The gamas are

generally sub-standard AMQS creations but there ere a few highlights, such as Relics of Daldroneye and Glddy The utilities section is made up of titlei, a game map editor, e databese, a picture converter end



miscellaneous drawer which is filled with disk magazines end

quiz programs. While there are some goodies on the CD, much of the softwere will not satisfy the demands of 'power' users. The naud to unpack to floopies on many occasions end then be

presented with a non DOS disk containing softwere that may have no duit option can be infuliating This is an exceptional casa and much of the software can ba run straight from the CD. but system friendliness seems not to

have been e high

Available from: F1 Licence were, 31 Wellington Road. Exeter Dayon FX2 9DU Tel: 01392

493 580. Price: £29.99 plue 50n P+P

### Danny Amor's Online Library Vol 1

If you haven't already chacked out the World Wide Web pages on this month's cover CD, do so done that, you II be femilier with the idea of using a web biowser to view documents on a local drive it works well and it's a lot cheapar then doing it over a

Denny Amor's Online Library is using the same system to present his 200 plus books on this CD. The selection takes in a range of public domain publicetions, including of course The Bible, along with lots of refererice material from vanous sources, such as the CIA, which



tion on every country in the world with population figures. financial status end all that kind

Graphic Adventure Creator.

which is the best of the bunch.

Next there's the sound section

which contains some modules

and conversion tools, followed

by the graphics department

which is made up of kids art

peckages and graphics tools

of stuff There's elso some classic fiction from Charles Dickens Robert Louis Stevenson, Tolstoy, Mark Twain, Jules Verne, HG Wells and Antonella D' Addeo

Some of the volumes are text only but thera's elso quite a bit of illustration to keap your mince pies stimulated (bit of cockney

thrown in for the Londoners, I like it - Ed) There's not enough room on

tha CD for it to be anything like

a fully featured library but there is a wide enough variety of topics. It doesn't saem to be aimed at envone in particular. Maybe a more focused selection would help arm the CD at a particular audience Even so, it's quite an impressive presentation all the same

Remember you'll need a web browser in order to use this CD Available from: GTI, Zimmersmühlenweg 73. 61440 Obsrursel.

Germany (see adverts for UK ouppliere). Price:

THA



#### Nothing But GIFs

While some graphics collections are filled out bottom of the public domain barrel, Nothing range of high quality images As you va already quessed, all the pictures are in 256 GIF format The sizes very but most are around is just right for high resolution interleced screams. The pictures ere saparated into three main sections diawn, digitised and rendered The first section is made up of



pictures from demos and what look like DPaint doodles. The largest sires of the disc is taken up by the digitised pictures, which are split into animals, buildings, glamous, lendscapa. miscalineous, people, plants, space and transport sections Finally that of the tendered acte, which holds all of the 3D lay-traned and fracted generated minegas and fracted generated minegas considered on the idea to make viewing us says a possible. There are also index pictures in each drawer made up of thumbned versions of the images for quote inflammed it you've footbody. As you proposed the you've footbody and a group of protos literity CA. In Available Form: 17 Bit Available Form: 17 Bit 18 Available Form: 18 Bit 18 Bit

Softwere, 1st Floor Offices,

Yorkehire WF1 1DH. Price:

2/8 Merket Street, West



### Texture Portfolio

One of the best forbuses of the CD is the printed indix booklet that comes with it is a collection of 24bit texture and backdrop Images, each of which is pactured in the booklet along with its ficiname. It's high time that CD ROM producers started producing proper documentation for their discs, as it

much easier
The images era
duplicated in three formats
(JPEG, TARGA and PICT) or
most era digitised from

photographs. Each one is segregared into one of the following erees, abstract, animal, clouds.



wood and miscallaneous Although the duplication of the images means that there aren't as many files as there might be on rival CDs they're all very clean and you won't find any fillers. Whather you want textures for 3D randering or backdrops for general graphics and video work, Texture Portfolio has plenty to effor.

to offer Available from: Ground Zero Software, 4 Chandos Road, Redland, Bristol BSS 6PE. Tel: 01179 741 462.

91

#### Workbench Add-On

The theme hare is productivity, or to be more precise, how to increase it. Workbench Add-On covers most of the areas you'll find on the Arminet and Fred Fish CDB (comms, mods, text, development (polis, sound, garnes, fonts, published, ches tools, garnes you not in a control of the control o

Sensible emphasis has been placed on registering the share were softwere on the disc, to the extent that the accompanying booklal has a number of legistration forms complete with



m both English and German. It's good to see such a responsible attitude, as without shallowere registratrons, there



would be no sheleware to put on the CD in the first place One of the best aspects of this CD is the generous amount of sound semples and musto modules. The semples can be euderoned straight from the disc but unfortunately many of them raplay at the wrong speed Even so, the overall quality of this CD is exceedionally high and there is quite a few original seminal quite of the CD is exceedionally high and there has quite a few original seminal quite a few original seminal quite a few original seminal properties, rather than the same old ones that crop up on most CDs. Wall worth a look.

Available from: CTI.

Aveileble from: GTI, Zimmersmühlenweg 73, 61440

Oberursel, Germany. Price: TBA.

£29.99

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#### Aminet 10



Here it is, the latest grab bag from the Amaga's definitive online shereware erchive it's ell here demos, utilities, software pictures and a special focus on music modules. The formet is just as before with most of the files stored as LHA archives Fortunately these can all be accessed from an intelligent AmigaGuide document, which automatically plays modules, displays pictures and unpacks archives as necessary Not everything works streight from the guide, but it's a good system in general Highly recommended as always Available from: Exclusive



PD. First Floor Offices. Coltsfoot Drive, Weterlooville, Hents P07 SD.J. Prion £12.99

plus 75p P+F

#### The Epic Collection

Epic have their own unique approach to PD and sharaware. often compiling their own themed pecks of disks to complement the rest of their library The Epic Collection is their PD hiprery compressed into DMS files and put onto a CD ROM The DMS files must be

unpacked onto floppies before

use This is the only way to

archive some demos, but it's a pain to have to go via floppies if all you want is to access some files or utilities. As there are very alternative disk structures, it's shams you don't get the chance to unarchive to a specified dove ed on the disc is vaned, fun end



often quite useful. The front end is attractive but uses a system of duel selection windows, making it easy to accidentally decomprese the wrong disk The lack of guit and screen cycle

gadgets is elso imtating but if you're not used to using this may not be so much of a problem All in all, a bit of a mixed bag but there are plenty of

gems to be found, whetever your interests may be. Available from: Epic Merketing, Victorie Centre. 138-139 Victoria Road, Swindon, Wittshire BML BUILDING WASH

131 486. Price: £19.99 plue £1 P+P

#### Phase 2



The Phase series of clip ert and fant CDs has proven itself to be e most reliable source of graphics for video DTP and general

graphics work. Phase 2 uses the same format as the others, dividing its clip art into mono IFF, colour IEE and EPS, while its

age bank has duplicates of all lifes rendered in 16 colours, 256 colours and HAM-6 mode There are also Type 1, CG and ProDraw fonts Subjects covered in the mono cho art ere enmals, fentesy, music, people and religion The colour IFF clips include ds, cars, cats, dinosaurs, gs, fish, harses. The Lian King, music, plenes and reptiles Then there's the EPS section with animals, buildings, computers, food, logos, office, people, transport, USA and the world

As for the images, we get an mals, balloons, Bleke's 7, cars. Conen. Dregon Lance fantasy.

horses, neturel, planes, rocing renders, reptiles, snow scenes. space. Star Trek, treins and backdrops for video work. Added to

that you also get some bonus. bits, including all the PageStream 3 updates, the Opalvision 2.3b update and utilities. Typesmith 2 5a update

and more Available from: EMC Computergraphic, & Edith Road, Clecton on See, Essex CO15 1JU. Tel: 01255 431 390

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A plathora of divina cheapness, in quality form, awaits you. Dava Cassidy takas a look at the holy world of new Public Domain softwara.



On the CD Chach oat the CD adition of this month's issue of CU Amiga Magazine for the best of this month's Public Domain, Including the

#### Dataworld AGA demo

amazing Dataworld.

AGA demo

A stemming Solvins of arimination makes up
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demain sectios.

Once yau've watched it through a few times you can try using the seim player (YP) from the shell to play the anime. Rend the documents on the CD for details.



#### Hilt 2 game

Strategy games are but Hill respond to the Hil

order to destroy the anomy. To die this you must solve puzzles and cushingly use your forces to out-will your competite agreement. Each move consists of any time to the puzzles and cushingly competent of the puzzles and to the competition, felling wasquester and so a measurement of the puzzles and so and anomalies, and there is planty of felling to, especially with the prospect of arts mission of this becoming available. This is less and acount destrib, and offly deserves your attention. Available form: 8th Dimension Licenseway, 1 Lower MIR Cost, Goldstonpe. Rotherham, South Vorfashin 50.3 Sty.

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including P+P.

#### Blobble game

Spenific Simple germplay is the key here. All you have to do is guide an admiral chaps owned first arms, soldering below plotted as a control of the control



Tel: 91922









### Contentious

#### game

Games

This is one of these split screen two-player gams where you have to find and hill the ether player. The playing meas and affect leave, but the ether player. The playing meas and firstly large, but the consenses ments a general season of the ether playing the ether the ether



Tel/Fax: 91709 88B12 7. Price: £2.98 netuding P+P.

### Bomb Mania

This is as interesting twist on Dysoblaster, is which you have to kill all the nextles on the level and collect the gordies by laying bombs over the playing eme whilst avoiding blowing yourself up! Gee



or two players can pertic-ipate is the verious worlds, with custom worlds also

promised shortly.

Bomb Menia is well worth a look if you'm into simple concept games that offer innovative twists on tried and

restad concepts. Available from: Freestyle PD, 108 Weodeide Wey, Short Heath, Willenhell, West Millands WV12 SNH. Tel: 91822 710985. Price: £1 plus 50p P+P.

#### Galerie AGA demo



The dimospharic as sic contributes a lat to Stallar's entry to The Party entry be seen accessionally and the seen accessionally a seen accessionally a seen accessional and a seen access

WV12 SNH. Tel: 91022 710999, Price: £1 ples 50p P+P. Requime hard drive and 2Mb Fast RAM.

## Voyage In A Storm

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Require hard drive and 2M Fast RAM.





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#### uce and Code 3 AMOS tutorials



Presented is the formet of a disk megazine, Seace sed Code is a collection of AMOS programming tutori-sis end exemples. All of the exemples ore geared

sxamples are gested towards writing demos and games, maey of which come with source code to be loaded into AMDS, text explanations and is a few

cases, executable files that can be use stable for the tent front and. The sebjects covered is this issue leclade text screllar, but is iffect, scheep zome sed warps, sed a sprishling of other assorted visual triche. If you're into AMIOS sed have aspirations that exceed the limits of the manes), Souce sed Code is well werth a text of the manes of the man

s look. Available frant: Hoberta Smith DTP, 190 Falfoden Wey, Hampstead Gordes Seberh, London NW11 6JE, Tel: 0161 499 1625, Price: 90p plus 50 P+R





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# workshop

**IMAGINE 3.0 92** 

How do you add entricate detail in one easy step, in Imagine? With a brush map of course. It's easy when you know how

VIDEOSTAGE PRO 96 • We kick off our Merch bover disk 128 s tytonal with a look at what this excellent what the accelerate can do.

**GRAPHICS MASTERCLASS 98** 

mattercless to produce some interesting results.

COMMS 100 •

It's all about Mime this month. No, it is got nothing to with wearing stripy tops and black leggings, it is how you can add stuff such as animations to your Email.

NET GOD 102 CU Arnige Magazine's undercover internet spy is on the case finding out what is

SOUND LAB 103

It's a sound leb with a difference this month. Tony Horgan has decided to do a one-off frequently esked questions on Amiga sound. So it's an ASFAQ.

SUBSCRIPTIONS 106 
There are pounds to be saved worldwide now, we ve introduced special offers excreas the board. And there is sax month subscription offers as well.

POINTS OF VIEW 120 •

The CU Amiga Magazine team mount their collective scapbox. Four opinions for the price of one, not bad sh?





Last month's
four-man points
of view
generated e lot
of interest so,
this issue, by
Lar demand,
it's three men
and one
musn'e point
view. There's
elso the usual

superb tutoriels Including Imagine and last month's VideoStage Pro

helping of

cover disk. And check out our superb new worldwide cut price subscription offers end the ell new six month option. Unbeetsbls

velue for all



Men cannot survive alone but computers can. However, it can be fun if you link two or more Amigas together. Your common queries answered.

**Q&A MASTERCLASS 114** 

Arexx to still here. Following on from lest month's look at its internet workings, this month John Kennedy explores exactly what it does.

Q+A 116
Just to prove QBA is a two way street wa've got some reader solutions to other

readers' problems.

BACKCHAT 118
Heppy people, sad people, angry peopl

looks like they've all written into our letters page.





# e maul



Brush maps are a quick and very easy way of including intricate datail in an object. Learn how to incorporata them into yours.

rush maps are the secret to creating realistic-looking objects With brush maps you can swiftly edd unv details without causing a huge delay to your rendering times. For example. Imegine the time it would take to create the objects necessary to model a computer boold full of connecting circuit lines. However with one brush map you can create the entire object in moments

Brush maps cen be used to apply wellpaper to a room or chunky stone tiles to a swimming pool floor Once you start creating brush maps you'll be addicted as they allow so much detail to be created in such little time

Creating the right brush map takes a lot of time, but the end effects will be worth it With lots of experimentation you will soon build up



your own library of special maps for every occasion Let's begin

#### Here's how Using a paint program (here, Personel Paint) draw

e simple pattern Then cut it out as a brush and save it. Think of this image as a sheet of wrapping paper we are now going to creete en object and wrep it up. Thankfully Imagine can wrap objects a lot

better then I can wrap presents See figure 1. Open a new project and go to the Detail Editor, Create a Primitive Sphere, Select the Sohere (click in the centre or press F1) and increase the scale. Whilst it is still selected, pick ATTRIBUTES from the pull-down menu.

Click on ADD BRUSH See figure 2. Load in the brush that you created with the paint program. Copy the settings (epert from the name) and in perticuler check that the Wrap X and Wrap Z boxes are marked See Яомия 3.

Perform a Quicklander of the object. Notice how the pattern is wrapped tightly around the sohere, not quite like wiespoing peper (which would be bunched up at the top and bottom) but speced out properly. This is what the Wrap X and Wrap Z options achieved See figure 4. it is essential to appreciate the three main

ways of mapping a brushmap onto a shape



A House 4, perform a quick randor to away the politers around the sphere.

Imagine will normally do most of the work in wrenning but you need to give it a hint about the general shape of the object. You can of course ignore these settings for special effects but stick with them for the moment The three main shapes are a Cuboid, a

Cylinder and a Sphere You can see from the diagram which mappings need to be eltered depending on the shape

For exemple, if you wanted to create e plenet you would draw the surface to: scen it. in from a book) and wrap it eround a sphere with Wrap X and Wrap Z switched on See figure 5.

#### A bit tricky

Let's move on to something slightly trickies Let's say, los example, you wish to plece e mapping onto an object in a particular place not entirely covering it. A good example would be placing an insignie on an aircraft



a Figure 2. is the detail editor click to Tabl break."



A Figure 3, leading to the break that we arealed in our point program.



A Figure 5 there are three name phapes - trabaid, cylinder and aphar



A Figure & born's per Triandly docu





wing This time the Wrepping format isn't

quite as important as the position and shape of the image

Creating this effect is possible because Imagine treets the brushmaps in much the same way as objects: you can move, stretch and manipulate the map in many ways Paint e smell image and imagine this to be

the 'decal' which we will place on our model Make it small but detailed so you can tell which way it should be See figure \$ Now return to imagine's Detail editor and

create a cone or any other primitive shape This is our model to which will apply the decal. Get a saucer of warm water ready to make the decal slide off the paper backdrop and try not to cover the fueelege with polystyrene cement as this makes it go all cloudy (oops .. only joking, remember those days all you air fix fanetics out there?). Open the attributes requester and add a Brush as before

This time we'll be keeping it flat, so don't touch the Wiep buttons. Instead click on the 'Edit Axis' button. You'll see the window disappeer end instead there will be a grid overleid on the cone See figure 7.

aphers.



#### & Please St. are docal and abject combined to make on assessed sight.

The top right querter of the grid represents the man image. Use Scale and Move to elter the size and shape until it looks something like the Image shown here. You can always click cancel if you get lost, and then start again Altamatively you can click on the Transform Axis' button and enter the new size and position by hand Don't forget that you can rotate brush maps too if you wish. See figure 8.

When you render it, you'll see that the decal has been changed to cover only a small part of the obsect. See figure 9.

#### Mapping techniques So far the maps we have been dealing with

have concentrated on controlling an object s colour. However, as you will have seen from the brush map attribute manu there are several other ways in which maps can be applied.

1. Colour Map As we have seen, the colour map simply

paints the object with the colour in the map. In this case. I have created a very fetching repeating equere motif using different shades of gray (and some graduated tones too). OK. it's dull but you will see what a difference it makes when we apply the other mapping techniques See figure 10.



A Figure 19: here's the police map is totaling shades of gree

#### 2. Reflectivity Map

The colours in the brush cause the object to selectively reflect its surroundings. In order to ses enything happen you will need to include a Global Reflection Image - do this from the Global settings in the Action editor. The white parts of the map cause the reflection to be strongest, the black parts don't reflect enything at all See figure 11.

#### 3. Filter Map

The colours in the brush make the object trensperent. This can be applied to make



A Plants 11" the white parts of the reliastivity map are stroughed.



A Figure 12, the filter map is ideal for a stained place window affect.



A Pigwer 13c; you get your fest bong is, right home not ... The oblitede may is where you can odd texture, such as bumps, to un object.



A Figure 13h In create homes that being in not the inverse Yelon.

stained-plass windows for exemple or to control complicated graded transparency offects Black areas in the image are opaque, whilst white areas are transparent. Notice how you can see the other side of the object—you are looking right through it in places. See figure 15.

#### ----

(Altitude) Surey Map
 The colour of the brush is used to siter the height of the object. This is an excellent way

to add texture to an object, although it takes experimentation to get it right—particularly in setting the height on the burings lose. Timesform to set the Y-value to about rine to start width in this close the square pattern and some dots have been used. Pleating the light come dots have been used. Pleating the light end of the property of the pro

Brush Map Hints
Spand a great deal of time worker
on the brush maps as they will make
all the difference to the final model.

 Use 24-bit images as brush maps II you com, so they will give best results.

Use the immiliest images yes can to such brush map meds to be held in memory. If your finished rander is 320 by 256 pixels, it makes no sense to create a 1026 by 1024-24 bit brush map. You'll run out of RAM!

9 Remember that Imagine 3 allows you to apply many maps to the same abject. This means you say apply a texture, some decais and a bump map all to the same object.

If you can't first, remember that you can always scan or digities brush rease instead. You can also buy disks full of suitable textures in IFF or JPES forthst. (JPES will need to be converted to (FFs before use)

When applying bump maps, try using the blur feature in many image processing packages to sme the details out. This cas give better results.

\* Imagins 3 can deal with multiple brushness. For each freres in an animation you can map a different image ento on object. If you can digities some frames from video this is a great way to create a rendering television act.



#### 5. Reflection

This is very similar to a Reflexivity Map, except the trush is treated as though it were measured by the same as t



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# VideoStage Pro

PART

Continuing on from lest month's facture we take a further look at what you can do with our cover disk 128 VideoStege Pro. Making your own video presentetions has never been so easy.



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we haven't yet covered with this great program

On-line help

Or-line help is available at any time whose using any time whose using tydeoStage Pro- press the Help key to call it up. The relevant page of the help key to call it up. The relevant page of the help document will be dispensifing or you are using the the time. To view the antire help document, elick on the Help button at the top sed then navigeste your way sround it using the AmjosSuides costrels.

#### Hot colours

Some colours when displayed on video produce a blurred look that will detract from the appearance of your work. These are largel, nich colours such as pure red. They're called 'not colours because they seem to burn into the wideo screen end leave a biref after image. Technically they are colours which would require liegel violage liveds in order to be represented in NTSC or composite PAL video.

VideoStage Pro checks for owniness of hot colours For example, when you lood in a picture file, after you check on the Adfact/Objects button, you will be in the Text Entry panel. If there are hot colours in the image the Hot Colour indicator in the Text Entry panel should display Red, indicating the presence of hot colours.

To see which colours are hot, click on the Beckdrop button or press F8 Now click on the Palette button (near the right edge of the panel) You'll now be presented

with the Colour Adjustment window, from which you can highlight the hot colours by clicking on the Flash button. You can change any of the hot colours using the RGB stiders to reduce their attention. Clack on an effect of the picture to select the required colour to be altered or safect at from the pidette.

## ARexx scripts If you find that VideoStage doesn't do everything you'd like it too, you can use ARexx scripts

doesn't do everything you'd like it too, you can use ARexx scripts to remotely control other programs or wideo devices from within VideoStage To call an ARexx script all you

need to do is drag the ARexx Event icon onto the relevant part of the storyboard and then select the ARexx script that you went to execute. This means that you could, for example, replay OctoMED MIDI sequences by using an ARexx script to tell the OctaMED Player to stert playing the current song. In this case you would of course need to have both ARexx (Rexx Meet) and the OctaMED Player running as well as VideoStage Pro Check tha decumentation on your ARexx compatible software for specific details on how to control them using ARexx scripts

# Using genlocks You can use any Amige gerlock with VideoStage Pro, but them's elso specific built-in support for the GVP G-Lock and the SuparGan from Digital Creations. The program in permally set up for use.

with a generic (normel) genlock.
This can be changed to either of
the aforementioned genlocks from
the Settings control panel.
To use the special genlock features, drag a Genlock Event Icon
and the stochastic and click on it.

to use the special gentium rate tures, drag a Genlock Event loon onto the storybeard and click on it to bing up its options. The first option window will appeals. There are two times associated

There are two times associated with a given genlock event, the start and and time. The and time is the etert time plus a duration. This is due to the fect that some settings can be altered over a time interval giving a sort of transition between the computer graphics and the live video coming into the genlock. The start end duration can be entered in this window end/or altered on the timeline. Bitplane keying (making certain areas transparent) is carried out at the start time only. You can also specify single colours or ranges of colours to be made transparent and/or opaque to the ganleck When more then one colour is involved, the range will be made transparent and/or opaque over

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#### as This is the original text the shot was supported into VidenZiage Pro II personate the secreta III the lag of the page. The long starting with a 4° sign are the lormorating codes. See the peopl for such details so the outer

the time range. This ellows you to have e picture gradually changing from opaque to transperent, or vice verse.

S

r the

the

If you're using a G-Lack or SuperGen, you'll also see a secand window, which will be different depending on which ganlock

you have selected. you to specify the video and eudia source at both the start

end and time. Remember that your G-Lock softwere must elec be running for this to work. For SuperGen users, the

of the genlock This is done by entenng the transperency of the computer graphics as a percentage, both at the start and and time, with 0% indicating ell computer graphics, 100% indicating all video, and 50% an Remember that you can change

second window gives options for

specifying the cross fede options

equal mix of the two, Enter a value of -1 for no change which part of the Amige graphics acts as the background colour from the previous window. Tony Horgan

Video Sourge: Title Change | With Chenge | Sudio Seurge Titte Change . 1 100 Change ....

A Thora are associate natorous for both the S-Look and Separties posterior.

#### Coding text files

You'll prebably remember from last month that you can import text files straight into VideoStege pages. What's more, you can aven include all of the text formatting Information within the text file, so as soon on it's imported

it armages itself anatiy on the scream. Adding the formetting codes from within the your text

editor can be a lot quicker when you're working with lerge liese of cradits. The codes you nater in the text elocument reints to all the text on the lines below. For exemple, if you wented to

change the text to Italien, you would neter "#ITALIC 1" on the line above the pert you want to italicise. In this case the '#' nign Indicates that a code will follow, 'ITALIC' is the code, and '1' means 'en' ('0' would mann 'off'). Not all

codes annd to be followed by a number. Three em the available cedes for justification (note the

American appliing: centur).

S.TIMETI PYRIGHT

SAUSTIFYCENTER.

The following codes cat the X and/or Y location of the text. Note that the Y value is for the top of the text, not the bottom nor the baseline. Repince 'veine' with the position

givnn in pixele:

Before you minh changes to the fonts, you can calect which of the two forts you are addressing ming the following code, whem a value of 9 (zero) mfem to the left font and 1 mfnm to the right font.

Now you can define the style of the font. All of the following use n value of 9 to represent off, and 1 to represent on

SITALIC velue

SUNDERLINE value SOUTLINE value

The shadow option can have one of three value cattings: 0 (off); 1 (cast shadow); 2 (drop shadow).

Font nize and name can be ant with the following code. Size should be appointed in 'point' enits while the norma should correspond to the fant name in the fonts drewer (ng. #FONT 8 Topax,font).

SFORT sies name

The three celoure of the text can also be specified. The voluns correspond to the coloure of the printte, so if the third colour in the poletto was red, a volun of 3 would land to

The following codes mists to the main colour, outline colour and abadow colour respectively (remember to use the Amnrican apalling; color).

SCOLOR velue

SCCOLOR VALUE

Three codes can be used in any order and embedded throughout the text, so multiple font changes are possible.

#### That's all folks!

That concludes our look at VideoStage Pro. If you still need more information, remember that the on-line help is available at III times. Next month we continue our focus or deating nideo with a leak at Scale, the top presentation package currently bundled with all now Amigus.

# Graphics Masterclass

What do you get when you cross Michelle Pfeiffer's eyes with Jeff Goldblum's face? Find out in this month's bit of graphical wizardy.

his month's graphics moves off in a new direction, on a financial smoves off in a new direction, on a Carling in the a state of the art graphics workstation. With a combination of hot software like Photogenics and Image FX linked to the Amige's ASA chipset or even a 24-bit graphics board, you can do just about enything and their just with we aim to prove



UFO sightings Fact or fantasy? In this case it's

lentasy Whather you believe in the possibility or not there's plenty of mileage to be hed when it comes to mocking up pictures of UFOs and other phenomans

I'm not suggesting that you use your Amiga to make up some pictures and sell them to a popular publication for pots of cash but

The pictura wa have hare my not be the most convincing flying saucer shot you've ever seen but this egel most of them ere usually blumred end distorted more than this Even so, if you were to take it senously and spend some time.

on it. I'm sure you could come up with a photo realistic Image using the same techniques

There are two main components in the image the spaceship and the background picture. The spaceship was rendered with imagina using an object that comes.

with a little spot-light already attached You'll find this already attached You'll find this In the Imagine drawer If you have the CD-ROM edition of this major earne. This was randered with no lancy taxtures, but you could add something like the DeathStar texture for a nest panelled metal.

Imege FX to be added to Stonehenge backdrop. U

Next it was loaded into large PX to be added to the Stonehong backdrop. Using the automatic background detection mode, it was cut out, sceled and posted down onto the backdrop if you prefer to use Photogenics, the Compose function does the job just as well.

to disk

Finally it was touched up from within Photogenics with some motion blue, blending and a few dots were added for the lights. All that remains is to sand it off to Guilible Aben Theories Monthly along with a story ebout how you ware abducted just efter you took this photo e pagen.

surface In order to make the saucer blend into the background sea naturally as possible, the light source was carefully aligned to match this lighting of the background picture it was than randered in 24-bit colour on a

A Bary's per Etemologoe UFE system roods to make its delect, It's All

#### Sexy eyes

eyes are those of Michella Pfeiffer and rest is the face of Jaff Goldblum This is a simple examgle of a subtle rub through effect It was created with Photogenics, although the same result could be achieved with Image FX. The two source images are from the were chosen because both faces fitted the fiame of the picture in a similar way

However, a rub through slone still highlighted the different postions of the features ithe eyes appearing above the others) To correct this, one of the pictures was cropped and scaled to match the other. This is simple to do with Photogenics as you can see both pictures at once, each in its own window, Image FX requires you to switch buffers to compare them (use the J key to speed things up). All that remains now is to

select a subtle brush type such as the default Aubrush from Photogenics, draw over the feeface appears like a spooky ghost!



### Spiritual harmony

There's no reason to become looked Into the habit of pro-640 x 512 pixel pictures, just because that's the shape of your manitor. This picture for example. could be reproduced

as a poster or wall

hanging, or even used as a scioling backdrop in an Amiga demo or video presentation used to create it. The first Buddha image ceme from the Nothing But GIFs CD and ouglnelly had a blue sky backdrop.

This was peinted solid 100% blue with a number of Fili processes and then seved out Next a blank page

> 100% blue) the same width as the Buddha picture but a lot taller The Buddha bottom, and then the entire backdrop was filled using the

Gradient Tint option At this point you may encounter some problems. Filling that mejority of a 640 x 1200 pixel 24-bit imaga requires quita e lot of RAM and even on a 10Mb machine a few tricks had to be employed

software closed down, it As you work, marnory gets fragmented, so sometimes rt's a good idee to save your Image turn the mechine off for a few seconds, then power

up again The finishing touch was the planet in the sky This was added using the Compose func tion, with the Brightness Key switched on A few pixels of the plenet image seemed to be corrupt, but a guick smoothing over with the Blui function was enough to sort them out.







the c

A pictura's worth a thousand words ... so why limit your Email to text? With Mima you can include graphics, sounds - avan animations,

f you been using electronic mail or lurking ground in the Usenet newsgroups, you will probably have come egross files which have been guencoded. Userpoding is a method of converting a standard binary file, for example a program or IFF Image, into a mass of text. The text can then be sent via Email or included

in a news posting Usencoding is required because text systems only use 7 bits out of 8 to store the various letters and punctuation symbols If you sent a program and missed out one bit in eight, whetever enived at the other end would be totally useless. ultimate way to exchange data by

Multipurpose Internet Meil Extensions (Mime) is an attempt et making this upencoding process as simple as possible. It too encodes binary fries into text formet but this time uses a slightly different standard called Base64 However, the important thing is the way in which the Mime mailing program works

#### The ultimate

Unlike the traditional upencode way, the user does not need to play around with massy CLI only utilities, Instead, they only need drag a file or two into a special window and it is converted automatically Each file is converted into a Mime 'partiel' and included in the mail message Even more impressive is what happens when the message reaches its destination, if set up properly, an image will

automatically be displayed and a MED tune automatically pleyed making it the

#### electronic mall A must have

To use Mime on the Amiga, you'll need a program called MetaTool. MetaTool was written by Ellis Pritchard and is available from the Aminet I'm assuming that you already have on Email system oper ating on the Amiga and therefore have experience with either a Meilkick or AmiPOP program for sending end receiving mail. For example, if you are a Demon



customer you'll be using the address and the host name is the part you chose For example, my

SendMeil program for handling the

Before you can start using MetaTool, you will need to make sure that you have set up some environmental variables. These sound horrendous but it only means that you need to include the settings

you signed up with your service

section you didn't pick yourself

efter the @ sign in your Email

provider The domain name is the

for your user name. domein name and host name. The user name. will be the name of vour internet postbox and this will be the first name you picked when

Figure 1 setemy DEER Johnk

setemy DOMAINMANE the gap.com seteny MOST infosys-2

> 2 You can either type these directly into the Shell every time. you re-boot your Amige, or save yourself a lot of time and include

Emall address is 'johnk@infos-

the vanables as in figure 1

track demon.co.uk" then you

vs2 thegep com' and so I set up

If your address was 'buan@toes-

would set the vanebles like figure



a. You can sped region of your med accompt to others by meloding nomes as other fields. Here I as letting

hon you unneceds a Re A in committed note tout. For case I read it, but you can unclosede it to bring back



You can strap-met-drop files or create those from secural and non a file respects

Figure 2

setany USER brian satany DOMAINMANE demon.co.uk satany HOST tosatrack

ready to send a Mime message. Press Right Amiga-N to create a new message You see the compose window eppear and there will already be

to send the massage over

the Internet You can also create parts of the message menually, without dragging and dropping. Click on the NEW button and you can select the type of the object you went to

send, You

will then

be given a

Figure 3

HOST whizz past

the

text/x-aquide; MultiView hs; Inbel="An AmigaGuide file"; edit="emaca ha"

one element in the list on the left. them in your a usar-startup file You may find that they have been This is the 'header' and you should select it and press the EDIT butcreated for you when you installed AmiTCP you can check by typing ton, Now you can enter the Email seteny by itself and see watch to address of the recipient and any see if USER, DOMAINNAME, and subject the message may have

Drag 'n' drop You'll also need to use avery-

meder program you have running

one a favounte Graphical User The easiest way to create a message is to drag and drop icons into Interfece, Magic User Interfece. If you are a heavy internet user you the window. Create a text file and will probably already have MUI save it. Then find the icon and installed to let you run AMosic dreg it into the window. You can drap and drop IEE images, LHA or IBrowse. Starting MeteTool should be flies or just about anything you can painless if you remembered the imagine. Me'Tetool will package thern all up and when you click on nght seteny commends You'll see your 'may box' included in SEND or DISPATCH it will use the

quester so you can select the file When you receive a Mime mes sage, you can view it in MetaTool simply by clicking on the constituent parts in the message list. But how does the Arriga know what to do with each type of file? This is the tricky section but it's the only way to really harness the power of the Mime system

MimeTypes

To elter what happens to existing files or to add support for your own specific application programs you will need to enter the murky

world of the files called 'matcap and 'myme types'. Both are in the Mets Tool drawer and you should edit both with a standard text editor Before you start massage about with them, it might be a

good idea to make a copy The first file, mime types, is to help MetaTool work out what sort of file you have just dropped on top of it. By defeult it will recogrise many graphics formats, as well the Amiga specific Amiga-Guide format. Here is how the AmigeGuide format is included text/x-aguid guide GUIDE it's nothing too amazing: the file is obviously text based, so the definition begins with 'text/', It's not a standard extension so there is an 'x-' added to make this clear Then we have the possible file extension names in upper and lower case.

whet to do when a Mime file is received Figure 3 shows how it mentions AmigsGuide files The matching line in the melicap file tells MetaTgal that when a xequide file is shown, the Amigamust use Multiview That's what the section 'MultiView %s' means, as the %s' will be replaced with

The meilosp file tells MetaTool

The last part of the line tells MetaTool what to do when the file is edited. In this case, the emacs program is spawned. You may not have emiscs on your Amigs and you may want to edit this line to reflect your own chalce, such as

CygnusEd or GoldEd. You can extend this system vourself to both control what application is triggered to take card of en incoming pertial and to add support for many other file types As long as both your system and the system of whoever you are sending the message to have suitable entries in mime types and mailcap you should be able to send enything by Email.

John Kennady



on are the two maps; files for determining what happens when you need and receive



A Greek het fammy — Otocs need he would to need pictures as usually as text. I don't show I'd be forgiven for a



Soon to be released to the rest of us via the normal Amiga distribu-

The main cause for

with software largely MUI types moan about the fact that the Voyager browser), cation. Although I can both eides I fell into the latter group (because IMHO MUI is However, getting on the Internet on a 2Mb machine was going to be herd enough but say that I'm esperty awaiting the softwere me that AT cen't

# Surt's I

Big, big, big news this month: the Amiga Technologies Surf Pack is on sale. In Berlin. Don't worry it'll be with us soon. However, it's already whipping up a storm of controversy on the net ...

#### Aminet goes down

Washington University in St. Louis USA has crashed spectacularly due to a hard drive failure in the middle of February, at the time of writing of this erticle. Ordinarily a simple fault that could be repaired quickly it's a different matter when you're talking ebout 64 Gigabytes of hard drives going down. The system was still down at time of going to press. Only when we at CU Amlos are without our reguler Aminet feed do we appropriate exectly how wonderful a thing the Aminet is, Blank lines are plang up on the recent lists and Amica PD/shareware sunkies the world over are wishing Wuerchive a speedy rocovery at the earliest opportunity Wuerchive, please come back to us!

New network provider IMM Studios have announced e move into Internet providing. An internat 'Cybermell' is to be leunched soon setting a renor of Amige hardware and software including the A4000T thereby allowing customers to view before they buy After sales technical support will also be on offer The Arniga natwork consists of many Amigas from the A1200 to an A4000/080 specially used for CD32 Scale presentations which are imple mented and then pressed onto CDs for interactive touch screen kiosks IMM say many more projects are due to come on-line in the next month. At the moment no dial in occess is available. eithough users ere able to hire web spece for personal design of contract IMM to design WWW them on http://www.immstudios.com/amilon

#### Non MUI WWW wine fevous

enemies. The current crop of WWW browsers on the Arrigal both on general release and in Bata, use MUI to formulate the complex GUIs needed for such features as Forms etc. Lately, however, a new Dutch bowser by the name of AWeb has been in Beta testing It's simple non-MUI interfece and its stable nature (unlike much of the cresh prone competition) has found favour emong many usors. An official AWab damo can be found on CU Amiga's CD complete with documentation in HTML formet. There's also quite a bit of other WAWW pages present so check it out in the Comms drawer if you have the CD issue AWeb's author Yvon Rozijn, is continuing direct apment on AWab and hopes to make a genoral HTML-2 release in March (the CD version is limited to local access). For further informetion contact: http://huizen.dds.nl/~aweb/

Termite TCP at WOA London responsible for the Termite terminal package, has appounced plens. to show a new TCP/IP package at the World of Amiga show in London on April 13th-14th Oregon

say the package was written from scratch to provide a TCP/IP peckage which requires no knowledge of networking or communications and features completely autometic installation and connection to

been delayed due to Illness

HI-Soft distribute Browse Browse, is probably the most fully featured browser currently available on the nat. The authors have elways aimed to release it commercially but only recently have ennounced that Softwood will distribute it in the US and Hi-Soft in the UK. A demo bete of (Browse is

aveilable at http://www



A. The new Amiga series peek, the cause of seach on-time postromers

# Sound Lab FAU Special



We get esked ell kinds of questions about Amiga sound. Here are some of the most common.

■ Q. Why can't I use stereo samples in Amiga trackers like OctaMED and Protracker?

and Protracker?

A stere sample is two mono samples
and trackers work on the book of fire

A leter stamps in an above susseps and fractives work on the basis of four mone chaesers. The Amiga has only two steres champed and you a sterno vound through o a one channel. However, if different samples are played on each side of these two steres channels, then four different sounds can be produced semistancessity.

Q. My Amigs 1200 uses 32-bit technology, so why can I only play 8-bit samples?

Most of you

Most of your Amiga uses 32-bit components, but the Paula ehip, which handlet the sound among other things, has 8-bit survivacture. Unfortunately this was not ungraded when the rest of the Amiga architecture jumped to 32-bits.

Q. Why doesn't my Amiga appear to slow down, even when it's playing a high quality music module?

■ A.

/ I

The audio hardware gets on with the business of playing samples without hoving to trouble the CPU while it does to, bewing the CPU free to handle all of its other tasks, hence there's no acticable slow down.

Q. Some module players claim to play modules in 14-bit resolution. How come?

The Amiga's sound channels have 8-

bit resolution with an extra four bits per channels for the volume information. These bits are constant resulting to a total of 14-bit output.

Q. Why do none of the Amige music programs sllow you to play samples in reverse?

**■** A.

They use the Amige's built in sample replay functions, which do not include reverse sample replay. However, OctaMED SoundStudio will allow this when it is released.

Q. I want to play very large sound samples streight from my hard drive. Is this possible?

■ A.

Yes. Technosound Turbo ii Pro will record ood replay sumples as large as your spure hard drive space. There are also PD tools that do the same thing, such as HD Frequency, Octa-MED SoundStudio also promises this.

Q. I want to load modules from damos Into my tracker to find out how they were made. Can I do this with single file executable damos or damos that use a strange disk formet?

Yes. You need a 'ripper'. There are many rippers available in the public domein. You load the demo, thrn quit or reset and run the ripper program. This searches the memory for wodules and saves them out to disk if it finds any.

When I sample sounds from my hi-fi I

always get some interference. Where does this come from and what can I do shout it?

**■** A.

This could be generated by a number of things; your monitor or TV, extra perspheralt you may have plagged into your Amiga, or even an internal hard drive. Disconnect everything and try sampling with the absolute minimum sat up, then add more to the system usual you find what is making the noise.

Mhat's the best

A.

Most 8-bit samplers are very similar in design and there's little to chose between them. CU Amigu Magaziae's proference is Magaloround from Hisoft. DSSE Plus, available from Power Computing, is mother good one.

Q. Whint's the best

15-bit sampler?

■ A.

The best value 16-bit sampler it Aum from HSS9. Toccum these review this insue from MacroSystem is preferred by many and has good support from ComMED SoundStudie. The Sunctes ADS16 is the best you can buy and it used by many professionals for digital audie-visual work.

Q. Will 16-bit samp-

plers replace my Amigs's four 8-bit channels with four 16-bit channels?

Aura odda

Aum adds o stereo 12-bit chansel, Toccata adds a stereo 16-bit chansel, and Suarize ADS16 adds two stereo 16 bit channels. This is in addition to the original Amigo oudio channels which remain available exactly as they always were.

Q. What is the difference between a tracker and a sequencer?

M A

A tracker works primarily with Amtea samples. Notes are entered onto a scrolling aumeric display, with optional commands entered to alter the way samples are played. They normally have on integrated sampler and sample addor section. Some, such as OctoMED, can also play and record MIDI instruments. A seawencer is eegred towards recording and playing MIDI instruments, cormolly with limited facilities for replaying Amiga samples, Many 'traditional' musicions find the style of a sequencer much easier to use than a tracker. To generalise, notes are programmed into a trucker, but played into a sequencer.

C. What is the best tracker available?

There are be

There are two main contenders: ProTracker and OctaMED. There are also many other similar truckers, all of which are PD or sharewars, each with its own particular strengths.

Q. What is the best sequencer sround?

This is one

This is another evo horse race, in this case the horses are Bars and Pipes Pro and Music X 2.0. Bars and Pipes offers a lot more power and flexibility, thanks to its modular system that allows plue-ins to be written for linking to a variety of hardware and software, such as ADSI 6. Triple Play Plan (48-way MIDI interface), One Stop Music Shop (Proteux synth on a Zorra card). Toccuts and more, Music X scores with its relative simplicity, some untque working methods and because it has been around long enough to build up a large following. Tony Horoso.

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## Frequently asked questions

Evarything you ever wanted to know about networking ...

## Q. Whet's the sealest way to connect two Amigas?

■ A. The simplest way is to use e Null modem cable to link up their sarial ports. You can then run a comms program on each Amiga (for example, Term or NComm) and use the X, Y or Z. Modem protocol to transmit files.

#### Q. is this how natworked games work?

A. Yes, nearly ell networked games on the Amiga work using a Null modern cable connected between the two machines

#### Q. Games saids, is there a better way?

■ A. Yes The serial port ser's amezingly fest OK, if you connect two Amya 1200s fitted with HISOft's new Surf Squrral PCMCIA device thinge will be a lot faster but there is still a better way of linking the mechines.

#### Q. What software do I need for linking Amigas with the serial ports?

A. You can use crdinary terminal emulation software such as Notoman of Invariation the Arrival Notoman of Invariation the Arrival the baud rates and other settings to be the same and use Zmodern to copy the files ecross You could also use the program "Arrichspress' which is swellable from the Arrival and PD bitmess. It makes sending files a lot simpler by running a custom utility on each machine."

#### Q. Can I link two Amigas via their Parallel

#### ports and use the comm software as before?

A. No, you can't. Parallel ports ere not dissigned with ports ere not dissigned with communications on mind and so you will need special software. This best known system in Parifiel and the best distribution le called Par

#### Q. Apart from speed, why is PurNet better than a surial link?

N. PerNet provides true networking features (although not ternibly advanced ones). This means when the Armgas are finked thare is a naw device on each machine celled NET: end this is e like with the remota hardware. It means that one Amige could use the hard drive or CD—ROM drive of a second Amiga.

#### Q. What sort of oable do I need for this?

■ A. You need a special coble and instructions for constructing it ere given in the ParNet archive. You must not connect a standard parallel port to parellel port cabla, as this will demogs the Amiges. You must make lot buylo a coble designed for use on the Amiga.

### CD32 in this way?

A. Yes, although there ere vanous reasons why this is tricky it's best to buy a CD-ROM end lead kit already mede up, from a doaler such as Brian Fowler Computers

#### Q. Is there another way of linking Amigus via purallul porta?

A. Yes you cen use a commerciel system celled Llane comes with a epicial perallal cable but the softwere support is offered through "Envoy" Blittersoft sell Liane in the UK

#### Q. I've heard of Envoy, what is it?

■ A. Ervoy is the standard Amiga networking package, writtion by an ex-Commodore employea. It is a commodice product, currently et version 2. It is more advanced than ParkET and offers a tot of feetures, such as the shift by to share printers, full society and internetwork routing. It also is hardware independent in that it deast'n much with hardware then elsework uses, as long as there is a suitable driver.

#### Q. is Envoy available for other hardware?

■ A. Yes, as long as there is a suitable driver, called a SANA2 driver. This is an Amigs standard for networking support. For example, the AmilTrx histworking system uses the floppy disk port and it can run Envoy as well Envoy will also run over Ethernet.

## What is Ethernat and can I use it? A. Ethernat re a fast network

Ethernatire a fast network ing atendard used on PCs and other computers it allows transfer speeds of up to 10Mbit/second over vanous types of cable. Meny machines can be linked together over 5thernet. It is possible to buy Amags specific network cards for Amags specific network cards for Amags with Zorro slots.

(BlitterSoft sell the Anadne cerd)
It's elso possible to buy a
GoldenGate 2 cerd and fit a PC
Ethernet card (EyeTech sell the
GGZ in venous bungles).

#### Q. Can I use Ethernet on an Amiga without Zorro slots?

■ A. There are no A1200 Ethernet cards currantly advertised in the UK, ethough there are rumours of some svaliable in the US. Sedly, although PCMCIA and Parallel port Ethernet adspters are available for the PC, no one has created a version for the Arrage.

#### ■ Q. Can I link my Amiga to a PC network?

III. A. If you have an Ethernat courty you, you can set up both the Armas and the PC to use the TCPIP tremsmous protocol and link the machines in that way. This makes in possible to run Trimer. FTP and even X Windows systems. If you don't have an Ethernat card, there are still ways to link up the Arma at least in theory. One approach would be to use SUP or PPP connection in the Arma at least in theory. One approach would be to use SUP or PPP connection in the Arma Programman Windows 85 or eversion of Unis such as III was the SUP or PPP connection in the Arma of least the PPP connection in the Arma o

#### Q. How advanced is a TCP/IP network?

A. In terms of filesystem aupport, not very. You can copy files using FTP but if you have used this you'll appreciate that it le basic to say the least. One possible edution is to use a Noval style network system, but details of Novel support on the Amige is sketchy to say the least. More promising is the version of e program called SAMBA which has eppered on Aminet. This arms to mount PC Windows Workgroups on the Amrge and vice versa, which would be a vary fiemble method of working John Kannedy

## astercla

We've looked at what Arexx is ell about, now we'ra onto to bigger things such as how it works.

or those of you unfortunate enough to have missed last month's issue let me racen. Affect is a very useful programming language. What can you do with it? Write programs is the obvious answer, and by golly that's what we'll do. ARaxx looks a little like the well-known programming language BASIC, but it is considerably more flexible. Not only does it include many powerful commandsbut it can control other programs and be expended to include support for, as an example, standard Windows and Manus





A Figure 2: bors we one not that the first pell takes in the name while

What makes her tick?

Last month we saw how to install ABeicc and run a simple program. Now we'll look at some more programming examples to get an idea as to the way in which ARexx works. First, let's examine the SAY command as it can be slightly trickles than you might expect. The best way to discover its secrets is to enter the following program and execute it. To do this, create a text file which contains the listing save it and then use 'BX' followed by the friename. Do not sumply type this into e Shell, as it won't work

won't run. Now we come to so different ways of putting text on the screen. The first method uses no form or quotes - only text. You can see that ARexx displays it as uppur case.

The subsequent examples use quote makes You can use either single or double, as long as you are consistent the first two quoted examples will produce identical results. You can also see that splitting the words into two end adding quotes to each automatically adds a space. If you don't want a space, use the concetenate command ( | | ) which joins the two text strings together without introducing any extra characters. Finally, if you want to include ouotation marks use a different sort - imagine the

outmost pair being removed. With output mestared, we can now learn how to make programs more interactive my getting input from the user. The simplest way



A Figure 2s. (Ci - Lion). I see not 37 de you hair. Fie a spritely 27 years old and dos I you longet it

to do this is with the PULL command, which waits at the Shell for something to be entered. (see example 2, foure 2 and 2a)

The first PULL takes in a text string and converts it into upper case twe don't ask for this to happen, it just does). The second PULL takes in a numeric value. There is no distinction between the text and number PULLs as for as we ere concerned it's up to AResor

to keep track of which is text and which is a number. The IF-THEN-ELSE statements do a little propess ing and that is all there is to it.

#### /\* Pull examples \*/

Variables We can't on much further without tauching on the concept of vailables. Variables are locations in the Amige's memory which store specific values and are referenced by a

For example, when we esked for your age using PULL. ARexx creat-

special nama

#### Example listing 1

/\* Hay examples \*/ say selle world

SAY "Helio Morld" SAY 'Hello World'

SAY "Mello" "World" SAY "Mello" | ["Horld" MAY "'Hello World'"

When you run the program with RX you'll

see something like figure 1 (top left) The first thing to note is that the program, like all ARexx programs, starts with a commant If you leave the comment out the program

Example listing 2

SAY "Hello, what's your name?" FULL name SAY "Nice to meet you" name

SAY "Now old ere you?" PULL age IF age > 28 THEN SAY "Wow, that's old ... " BLSE SAY "That's not very old."

ad a variable and stored a number in it. Affacx deals with variables in a vary flexible way when it comes across some text which does not main anything to it, it assumes it's a variable lift the venible flash been used before (that is, it hasn't been intelligated) then it has a value it's own name in upper case.

This is why our very first example, SAY Hello world, did what it did. Aftex thought "Hello" and "World" were two variables and so printed them. As the default contants of a variable is its own name in upper case the pro-

gram deplay "HELLO WORLD".

Now here is an exemple of how you can make whiledles which store more than one value. Lets say we need to store the names of the different types of fish, for the start of an axcellent Fish Datebase program. We could use five societies was and get the names.

.. PULL first-fish PULL second-fish PULL third-fish PULL fourth-fish PULL five-fish

like this.

and so on. However, this would make the

/\* Varishle examples \*/

SAY "Five fish pleass"

SAY "Were is the list. . . "

knew you would say Maddock"

IF fish.i = "HADDOCK" THEN MAY "Bah! I

FULL fish.i

DO 1 = 1 TO 5

DO 1=1 TO 5

SAY fish. i

MINO

END

EXIT

mari

at-

#### Example listing 4

/\* More Variable examples \*/

age.john = 28 ags.brian = 15

age.mary = 25 age.anns = 34

SAY "Enter s name, plasss:" PULL name

IF ege.name = 'Unknown' THEN SAY "Horry, I don't know " name ELSE SAY "That person is" sgs.name "yesrs old"

KEIT

progrem rather lengthy it would also be very hard to expand the progrem at a later date to include more than five fish.

A botter wey is to use a compound veneble — a variable which has a single base name but stores different values depending on the associated name appended with a full-stop Erm here, look at example 3.

when it is run, you should enter five fish types. The program automatically creates and assigns variables called "fish 1", "fish 2", and the first run fish types. The program automatically creates and assigns variables are

"fish 3" and so on because the "i sactually the loop counter which counts from 1 to 50. Notice the second part of the progrem goes through the fish names itself, looking for e metch Imagine how hard this would be if there were fifty fish to process. . (see

figure 3).

Don't think that you have to use numbers to reference the values which a compound veriable can store all the time though



A. Figure 3: companied sur-nitros are basely whom it comman to dealing with lists of items which you want to store and maybe add to letter.

Example four is on interesting little listing it create a miniature detabase of ages for four people and then askit you to pick a name (see example 4).

Of particular interest is the fact that when no extra refarance is given, there is an automatic default value present (which we call "Unknown") and this can be tested for (see figure 4)

Next month, we'll be concentrating on making use of ARexx with existing programs creating your own user-defined Macros to do exactly what you want with minimal effort 
John Kennedy

constant all the tree bough

B. Morkbench > rx ram age
Enter a name p ease
Sohn
ers n s 2: years o d
Mor ben h > r ram age
Enter a atte p ease
That per -n s 34 y ars
B. Morkbench - x ram age
Enter a ame, p e
Enter a ame, p e
Enter a ame, p e
Enter a man, p e
En

& Papers & Merc in ner detailusse of from people, there is an automotic default robus 'automom' which course who play when it decou't. Mangamed a reference.

## It's all there on the CD If you've get this menth's CD-ROM edition you sheetel be delighted with all the ton storf

edition you should be delighted with all the top stuff we've managed to crass so there: games, utilities, pictures, demos and locs when teled our best to

murn. We've also tried our best to include most items released to best to include most items released to the American American items released to the American American March 18, Arcan Mentercless in me unception. You will find these listings included no the CD-ROM on the caver of this ment's CD-ROM on the caver of this ment's CD-ROM on the caver of this ment's CD-ROM and the CD-ROM on the CD-ROM on the CD-ROM on the CD-ROM on the CD-ROM of the CD-

adition. Go to the drawer colled Magazini-kranx Masterclass and should find the tutorial stuff there you will also find some programs from previous Alexa Masterclass features: please read the test file lafers cunning there! Logos, meanings

and mysteries:

CD32 queries. ParNET and various other CD ROM-related



eparating Systems and ores Plug-in hardy of any kind:



orticular oi of nothween



MIDI and arrythong that make a found mouse



your Assign run-Aine amounter. Serminate page-breeks,



ets, lete more! Monitors, TVs. andaleters. nerons-mades and all that stuff.



Pinols, sprites, mirrores for more soul word.





you need





They're back, and they're ready for action. CU Amige's moderately handsome yet still intelligent dynamic duo ere ready to battle with your hardest technical probleme and dilemmas.



Lies, tired of cheeing Tony around the office for Q&A, let him heve it. Poor, poor lad ...



On seeing Tony's fats, Met quickly scribbled down the answers before taking the first plene back to Aussie.

#### Good on ya I have an A600



ABC printer and a Power Computing guad apend CD-ROM drive I've now decided to take the plunge end upgrade to an Amiga Technologias A1200 I am going to buy one from a friend who wents to sell his so he can buy an A4000. What do ! need to get to anable my current A600 peripherals to work with the A1200.

#### Blebard Jones Porth



The CD-ROM drive will also work happily on the A1200 without modification, just slide the Senirrel interface late the PCMCIA slot ns von do on the A600 and it'll work fine.

#### Adorage aggravation



Many thanks for your answer to my Adorage SSA demo query, 'Adorage bluas' in February issue Unfortunately, I.

am still unable to use the program and shall tharafore put it on ice until you are able to essist me further

Using Opus5, I set about transferring loonX from my

Workbench C directory to the C directory on my Adorage working disc. I was presented with the error massage 'As Error Occurred Copying IconX DOS Error: Disk is fall

When I chacked the available space on the Adoraga working disk it was 967b. The IconX file however, says it needs 1452b My 1200 has 240Mb hard disc end 4Mb expansion board Please help. What do I do now?

#### Roy Firth No address supplied

My, you are demanding aren't you. Firstly let's clear up a slight misun-

derstanding you seem to have, The problem you've having is that there isn't exough space on the floppy disk that Adorage is on, the amount of hard drive space or RAM in your computer will have no bearing on this,

As to your current problem, try-Ing to fit a 1452h file into a disk that only has 967h left won't work, your only solution will be delete some of your files off the Adorage disk.

To do this use DOpus and try removing the Logo\_IFF file from the Images drawer. This will howeyer leave you without a foreground file to load into the program when eventing animations (unless you already have some others) so it's probably worth copying the file to somewhere on your hard drive first. Again, you can use DOpus to do this

#### **Auntie Agnus**



asked if a reader could help with the various modifications needed Amiga motherboards I cerned out a similar modification on my B2000 (rev 4 4) last month, here's

how I did it. Heving installed the 1Mb agnus you need to alter two jumpers on the motherboard, so open the A2000 and take off the PSA and drive mount once again You should find two solder peds lebelled J500 under where the PSU would be if you hedn't suet removed it. There's a trace of eqider joining the two pads and you have to cut it so that the jumper is open Shame Commodore didn't put some pins end a jumper

block there. I need a scalpel Next find sumper J101 which is near the power connector and a load of upright cylinder thingies J101 has three pins two of which are covered by a immper block. You need to move the jumper block from pins 1 and 2 to dins 2 and 3.

Put your Amiga back together and, essnming everything went well and you manage to boot up. open a shell and type 'evail' You'll now see that the maximum chip rem is now 1047552 bytes (I don't know what happened to the other kilobytes but there you go). Time for that Hi-Ras Interlaced Overscanned Magic Workbench you couldn't have before

#### Martin Bahn East Yorkahira

Thanks for that handy tip Martin. it's much oppreciated. We should polat out, however, that we don't recommend readers follow this course of action nuless they've familiar with the insides of the Amiga and are very careful doing it - gesting it wrong will elobber your Amiga good and proper! We do not

want to be held responsible if you damage your system, so get a pro to do it

#### **CIA** shock



I recently fitted a new Canon BJC bubble jat to my A500 and since doing so the mouse has

stopped warking. It moves left and right but no longer goes up or down. It's really ennoying Can you give me any hints as to what's gone wrong,

#### Patrick Divan Reistal

10

ad

er

It's very simple, there are two chins inside your Amiga, collectively known as CIA chips and it looks like they're dead, no more, kaput? This can happen by plugging to the printer while the Amiga is on. These two chips control the mouse port, joystick, disk drive, serial interface and printer and by attaching the printer without turning the Amica off you've damaged them

There are two solutions, one has a new chip: try calling any af the Amiga repair centree such as Silien when we last sheeked they cost ohout \$70

Alternatively, try swopping the two CIA ships around To do this apen the Amiga, remove the metal chielding and locate them - they're Inhelied CIA DDD and CIA EVEN. Gently lift them nut and swop them over, if you're lucky the mouse will work. You may loss some other functions though, the disk drive for instance, but as you have a hard drive this might not be a major problem until you get a replacement set of chips.

## The future's so bright ...

ve just returned

to the Amiga after

several years



away from it Previously I had an A500 Plus now I've just bought an A1200 from my local Escom store, and having had a quick olimpsa through the pages of CU Amiga Magazina I have only one thing to eay - the Amigs is fai from being on its last legs as some

people seem to think The power of the peopherals now syalishie (SCSI CD-ROM drives, 040 accelerators) and the amazing applications around (FinalWriter 4, WordWorth 5 FinalCalc etc) make the products that used to be out when I had my A500 look really

sad by comparison However, this is gatting away from my real reason for writing namely, will the Lexmark 1050 colour printer work on the A1200? A friend is selling his PC

system when he moves to the USA shortly and I can buy that printer off him cheap.

#### Paul Winters Glascow

We're in total agreement with your comments about the current Amiga. Although Cammodore are no more, and we're still waiting on hardware news from Amign Technologies, the software now soming out le certainly the highest quality it's aver heen.

Unfortunately the Lexmark printer areds Microsoft Wiadows to work properly and as a result won't work with the Amiga. However, if you look around you'll find many other printers of equally good quality available that will, look out for anything that's Epron compatible ne o good starting block for Amiga compatibility.

#### Which CD-ROM drive is best



is this true and If It is how can I adapt the compact disc player

Does the 'digital out' socket on the back the unit have something to do with this? If I can adapt it which CD drive do you recommand I buy?

#### Adrian Poole Staffordabica

Unfortunately you can't adopt your HiFi CD player to work on the Amiga. The digital out port on your CD is intended for use with ampliflers that support Digital input - producing better quality amplification and sound reproduction. It's also possible that VideoCD boxes will be released that take this Digital output and convert it into sound and pictures for displaying on a TV, although this is becoming less likely as time goes by.

As for the best dedicated Amiga CD drive eheckout Power Camputing or Hisoft Squirrel based systems, both of which are very impressive units.

#### Tha great CD32 FMV debate I would like to thank you for supporting our fevounts computer

over the last couple of very turbulent years. I am pleased to say that CU Amiga Megazine is currently my favounte megazine However, I feel that I must put Tony Horgen right on a Q6A let-

ter in your February issue A Mr K Walsh wrote in to say that he had a CD32 FMV card without its adaptor

On close Inspection of the whole module you will find that it actually consists of a shielded circuit board (the metal bit) and a loopback section with the CD32 coloured plastic around it. These can be saparated and hence the loopback is lost. Just to help, the oopback has two stickers on the inside of it (only really visible with the actual card ramoved). The first has REV A end a barcode on it while the other has COGS LOGPBACK and a barcode with the following number below it, 8515293385480001000565 I have written to AT about this

My advice to Mr Walsh is to contact them at their new address and sea if they can source a loopback connector for him.

#### Sven Hervey, West Midlends.

Thanks Sven, it's always good when readers come up trumps with a his of handy information. If any other readers out there feel that they can help out on any of the other problems that they read in these pages picase write in.

#### I'll be back, for sure

I am writing in response to my phone call to you about my letter printed (Q+A February edition 'CD32 FMV cart') and your raply which you printed and repeated back to ma on the phone I have the FMV card, I rang Amiga Technologias as you said and they sald I was right, it is a real one

However it's just that mine does not have the 150-way female connector. Anyway they could not help me I'm not waiting for a fresh batch of SX1s from the USA. I'm now flogging my pard, someone out their with an SX1 will do.

My only options are to arther get a 12" laserdisk player or wart for DVD due out soon) It's a shame I cannot utilize my CD32 to its potential, what a waste of a good machine

#### K. A. Welsh London

Dksy, fatr enough, you seem to have been right all along. Obviausly what has happened is that the unit you have was retro-fitted with an gender adaptor which has since parted company with the main cartridge, Had you bought this from a shap, we would suggest that you return it and demand a refund, but we anderstand this was bought second hand from a private seller, so you probably won't have much luck

It is a shame that the CD32 FMV module never really took off in a hig way, but with AT's plans for using CD32 technology in 'set-ton

home video boxes, maybe comething will emerge in future As for laserdisks you could buy one, has it's possible that DVD might kill them off in the long run making your investment worthless and, unfortunately, although DVD is definitely a very good option official anits either computerized or in a standard TV/HiFi format won't be released until this autumn, and even then they'll be well above the price you can get FMV units for but HiSoft's MPEG is an the way too

## send your Q&A problems to...

You can sand your technical prob to CU Amigs by the following me By letter to Q&A, CU Amigs, Prior

a't send SAEs or phone u



## Backchat

Forget the cold weether, people ere getting hot under the coller in this month's reader's debete. Went to turn up the heet? Join in end write in.

Put your money where your mouth is

How am I and other mambers of the Armon-using public supposed to believe that the Amiga is still going strong and will survive the compatition from Maga Drives, SNESes, Saturns, Play Stations and PCs? It's very disheartaning when you walk into any high street computer shop and find that the Arrega software display has been relegated to the derkest comar at the rear of the shop. And if that is not a big enough insult these shalvas are only stocked with old releases. How can the Amige be expected to survive without the support from the retailers?

Andrew Raild, Essex.

A good point. The only way around this seems to be to keep going into these thops and axking for Amiga hardware and software products. Theo maybe retailers wight wake up and realise that there is a hues market out there for Amiga products. It's not just Amiga users who are annuyed with this situation, software companies are also finding it increasingly irritating. Peter Calver from Audiovenic whose excellent game Super Tennis Champe is hardly

anywhere to be eeen in the shops is incredibly frustrated by the situation. He arges people to "vote with their wallets" which means that if we show that we mean business and we actually want to spend money in their shops this might get them moving. Or falling that contact the software companies

direct for their product. You've raised a valid point in your letter and we are hoping to look at this matter and clear it up in depth next issue. In the meantime turn to our points of view pages where Lisa Collins has asked around to find out what some retailers' policies are concurning the Amiga.

The price is right

I d like to add some more points to a raply I read in your magazina concerning the once of the Amiga Although you agreed with the letter's author that the price was high you said it was justified. I agree. Here, in Garmany, the Amrga only costa 650DM which is outstanding value for money compared to other current computers. Also, the software that is being shipped with stock A1200s is brillent. I mean, look at PCs. Do they have anything like Scala or WorkBanch? Can they

immediately generate titles for their homevideos without any additional hard or software? No, not et all. So why complain about the pnca? I think that people are complaining now

about the current price of the Amiga bacause for some time, due to Commodore's closure and other difficulties, A1200s land CD32s1 were sold for e lot less than their normal retail pnca. The pnce for A1200 (with a HD and 4Mb) RAM all in one) at 980DM is brilliant and it is a very affordable price for a computer. The A4000's pncs however.

Marc, Garmany,

#### Cobblers

Call ma a miserable old git, bonng old fart or whatever else but I think the net wedding fee ture (February 96 CU Amiga Magazine) was the most crep, Infantile, pathetic piece of journalism I have ever read. I'll never forget. Mat Bettinson's worldly wase "auper highway" quote "You may not take it senously but you should it happened, it's real," - Cobblers

I realise that you have to cater for younger purely games playing readers but I am sure you do not not want every other type of Amiga user to desert to other publications. They will with too much of this type of article, it was the pits.

Unfortunetaly, I have no doubt that this letter will be ignored or publisher with some smert alec reply. Be warned though, you are suraly awars of the media perceptions that for avary person that bothers to phone or write about something then hundreds or thousands think the same but never get around to doing anything about it. On the plus side ProCalc was the best cover disk I've ever found on any magazine.

RD Armour-Cheiu, Kent.

Why do you assume that the piece was aimed at younger readers? It was a topical article which was informing as about something which is really happening. It was the first wedding to take place on the net and we were there to report it, what's infantile about that? As for your warning that every letter represents thousands of unwritten once - we've exceived tons of phonecalls and letters congrutulating us on this article and only one criticising it yours. Since our article similar reports have appeared in national newspapers and on television.

The dog's ...

I enjoyed your net wedding article (Feb 96). It's nice to see some romance on the nat. I'm filled of hearing all these stones about the net being a casspit of paedophilas and pomo freaks Barry MacDonald, Bracknell,



the bing of the show. ... And now he's yone."



Carten falls for the old robben evaluel next

#### Letter of the month

#### The way forward

This letter is aimed at users who have been electant about upgrading end who complain about the lack of interest of software developers! I bought one of the early A1200 after owning an A500 for a flow years. Then I bought a haid drive a while letter. The point is, that one aingle penpheral complexity transformed my Amiga into a genulnely productive and useful methins.

I used to think that a haid drive would just make file access faster and prevent me from stacking up floopy disks, but it is so much more useful. For instance I simply couldn't run programs like Real 3D Imagine or play games like Walms. Alling Breed 3D otto, without one

pagains like Hest 3U imagine or play games ike Warms, Alien Bleed 30 etc. without one Amige Technologies should really not be selling Amigas without herd drives, eithough the Amiga philosophy has always been one of affordable entry models which grow gradually with users? needs

Haird drives are essential if you intend to use your Armga for any serous applicable and quite a levy geness lety on haird drives to make them playable I would serously avoid any games which I knew were not HD installable Piracy is not an excuse agenst games not being installable If Armga floppy users want more games like Alvan Bread they should gave a haird drive serious condidection. After any part of the properties of the properties of gave a hair drive serious condidection. The con-

ell, a 35° IDE will squeeze into an A1200.
There is no longer eny reason for not buying a HD. HD pinces here fallen by a ridiculous amount in the last year. Looking through your mag. 850Mb costs less then £200, even 420Mb is only £125—this is the same price as only three or four. Ample games (two or thee

console gemes)
To anyone who complains that the A1200, with its 020 processor is now behind the times, the answer is simple, save up some

money and buy an accelerator - which ere also dropping in price these days. There are bound to be some affordable second-hand 030s for sale, with a lot of sorious users looking for 040/060s Even buy 4Mb of Fest RAM It may sound e little heish, but when you consider people spend probably £1000s on PCs, to upgrade a basic A1200 to a very usable Amiga sat-up costs around £450 (or much less when buying second-hend), i.e. a 50MHz 030 + 4Mb fast RAM + 420Mb 3.5" HD Even a small secand hend HD, which would cast little more than the average game, would make a world of a difference, eithough as is often seid repeatedly upgrede to the largest you can afford, or et least three or four times as much HD space as you think you need now. You Il regret it other wise. I know, I out-grew my 120Mb HD very

quickly a flery years age.

Now that games producers have started to develop for socialization, these seems to be a develop for socialization. These seems to be a service set of either than the started of the service seems of the service se

#### Forces combined

I nation the interesting Presthless/Powel Computing of the in your magazine. I she'k it's time software heroware manufacturers, the migazines and AT themselves all pulled together more to stess the upgreds issue it would be worth including datalis of gemes which benefit from memory and eccelerators with the bandware and datalis of the hardware evalebile with the gemes. This sort of co-operation. makes sense 1 mean, where better to advetise your accelerator than inside the box of a game which would benefit from one?

Maybe all the magezines and Amiga Technologies should start a major survey of Amiga users Discover how many have expanded systems, and what their configuration ration is. Things have changed a lot for the Amiga both herdwere end software-wise since Commodate went under, not to men tion the radical changes in the console and PC markets In addition, the survey would pool the ideas of everyone who supports the Amigs and show to software houses that the Amige is still worth investing in A carefully designed survey organised by AT, in co-operation with the magazines - or wider press might benefit the Amige immensely - it can't do any harm! I can't remember the last time I saw an Amiga sur vey, but things have changed so much Intely, surely another one is due.

#### Bad attitude

Recent stones about the attitude of some Escorn salespersors concerning the Amiga rise quite worrying. I hope AT will take steps to enaue Amigae sie promoted properly especully since severy other platform is on display. Shop displays, are what catches the consumer's eye. How mery more people is ellikety to discover the Amiga if it is not on display?

Firelly if software houses meter a hard drive and exter memory/processor obligatory (in every release from now on (assuring the software was of a high quarty, like the "Doomciones" rating 80% +1 and there was a kind of herdwerts software oc-operation, how mony paciple could honestly refuse to upgrade their systems.

Gemrd Callaghan, Missouri, USA

#### Rammed home I'd just like to mention a few things about

your Points of View article in the Feb 96 issue of CU.

Also Dykes was going on about the min.

spec of miggys, pcs and mecs. He stated that the min, spec on the miggy was 2Mb RAM and no haid daik to the isabouts! However, in my expenence, I ve found that the mejority of Amgle users in comms enywely have bround 5Mb RAM and at least 1/2 Gig HD. It's pretty rise to find someone that has a base level mechanic at leost a base level.

I totally agree with everything Alam sald in that entalle But why don't developers just auto config their softwere a bit fixe expansion boards. XTR does it with no apparent speed loss. ... a fixed and I ran't on both out A1200s at the same time and hardly noticed eny difference. He has 20th ohip no fast and 214Mb D1 have 2Mb chip. After fixed fix

#### A pat on the back I would just like to thenk you for your mage

zine CU Amiga. I have found it to be useful es well as fun. The magazines here in the USA all seam to think everyone leading them elieaty knows all there is ebout the Amige. You projects have gone a long way to help me understanding the Amige and computers Now that the machine is once again in production, I hope to see more good things from you. Keep up the cood work.

#### Tom Gower, Texes, USA

#### Double pat Since my son had his A600 e couple of

Chadmascs ago we have regularly bought and mad valued. Ampliam mag Three are all lept in a box under his computer deak. Looking beck through the mags it was interesting to note that the one we have purchased most ISO LAmps Magazine I think this is probably due to the conststently good of the cover dock that the deal was the server to be a server to be a server to be a server to the cover dock it is also a change for a mag of the cover dock it is also a change for a mag of the cover dock it is also a change for a mag of the cover dock it is also a change for a mag of the cover dock it is also a change for a mag of the cover dock it is also a change for a mag of the cover dock it is also a change for a mag of the cover dock it is also a change for a mag of the cover dock it is also a change for a mag of the cover dock it is also a change for a mag of the cover dock it is a server to a change of the cover dock it is a change of the cover dock it

Recently I had cause to contact your advertising department for help with a problem regarding one of your previous advertisers. I had returned e faulty drive and was having difficulty getting arther a replacement or a refund. Finally, and only effect your intervention I iscolved a refund slip. This was only effect they had been phoned by your Marianne Masters. I don't know what she said to them but it did the track. Thenks

#### Ken Dryden, Cambe.

Firm sale? We say NO! As I am on a light budget, I have been forced to stop reading CU Amiga Magazine as it has now gone firm sale. I carnot commit to paying out the monthly sum of £4.60 just in case I'm broke. Why oh why is it now firm sale? K Simmons, Bristol.

#### Firm Sale means that a newsagent has to buy a

magazine and bear the cost if it doesn't sell. The opposite, SOR (side or vitarue) mant newsegens return unsold copies of magazines to the distributor. CU Amigu Magazine it distributor is the distributor. The designation is distributed by a company called Frontline, the country's premier magazine distributor. They definished handle CU Amigu Magazine on an SOR basis. If you have problems getting the mag write to blark Cowie, CUA, Frontline, Firsk Hous, 117 Fack Road, Peterbough FEE 2TS.

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## **Points of view**

#### CD-ROM - saviour of the Amiga scene

by Tony Horgen

Many people both inside and outside of the Armiga scene are surprised at the way the market has atood up over the past couple of years. Armiga uses have always been a discerning bunch, they know what they want from their computer and worth to taken in by media hype and exteresting stone, which explains why they bought Armigas in the first place and as part of the reason they have not abundance they have not abundance they have not abundance the lattime.

Every so often, the state of the art moves on, leaving a wake of weshed up and redundant technology.

Wildery Surges in Cil Assign

Even so, every so often the state of the ent moves on, leaving a wake of washed up end redundent technology, which is where mery think the Arriga should be floundering. It's managed to stay on the bost partly due to its very

loyal user base but also thanks to the farly recent introduction of affordable CD-ROM technology which has revolutionised the Amiga scene

CD-ROM is the perfect medium for mass distribution of the Arriga's unique shareware scene CD is the international standard medium for both computer data and music, which has lead to very low duplication costs that mean CDs. can be sold for as little as a fiver or even loss. With third Independent organisations such as the Aminet playing a protal role in the compilation. management and distribution of the best Amiga-specific shareware, backed up by hundreds of themed CD compile tions from other producers, the Amiga is free to exist, in some form, with ne without support from the established commercial software producers

However, while this has kept the Ample scene goling through what could have been very lean times, wo still need to continue development of the core commercial applications – the likes of Wordworth, PageStream,



Photogenics, Personal Paint and the merry band of 3D fendering systems. If the financial backers of these peckages pull out of the mericat, all will not be lost, for then it will be the turn of the shereware developers to pok up the gauntet end keep on keeping on, running the show on their own terms.

#### lave money, will travel. But where to?

by Line Collins

I em sick end tred of the amount of latters we are starting to receive which and with those three little words "disguisted and disallusioned" What is causing this heightened level of unhappiness? The appeient lack of swallsbillty of Amige hei dware and software.

I found tales of Incompetent shop assistants advising Amigs anthusiests

Despite rumours to the contrary
Escom .... are going to continue to
stock Amigas.

Whice Collins is CR Assign Magnature: Buyery Editor to buy a rivel piece of hardware and little or no shelf appea for Amige genes very worrying. One man in Bury St Edmunds even went as far as to offer his services, for free, to help his local Escorn shop display the Amige's balent. We've yet to find out.

If Escom took him up on this gener ous offer. Also, recent rumours that Escom shops had received a memo tailing them to remove all their Amiges from their premises were a

little more then disconcerting
Judging from seckloads of mill we
receive, there's e huge erry of frustreated Armge users out there erred
with cash to spend on upgrades, new
machine and software but don't know

where to get the goods in next month's issue Alen and I will trail the country to find out what is going on, who is stocking what and where in the meantime let me try to clear this confusion up.

Despite humours to the contrary, Ecoam have confirmed that they are going to continue to stock Amigas and are committed to promoting them in their shope. Also, eithough reported to be stocking Amigas, Dixons and Currys, however, "do not stock Amiga products and have not done so for at least two years", according to Helen Sargent, Corporate Affers Merseni.



HMV's Oxford Street branch according to Trish Saunders "will stock all Amilge softwere and, whereas other smaller branches will have a limited amount of Amige products, you will be able to order a particular geme through us (HMV) if not available."

I hope that helps, until next month

#### Cover disks are saving the market not killing it



by Alan Dykes Before Jonathon Anderson left Arriga Tachnologias at Christmas he stated his belief that magazines cover mounting full commercial software harms the Amige. His point of view is shared by many in the software industry and, indeed, by many readers too. Every place of software we cover mount is supposedly putting a nail in the Amiga's coffin - apparently noone is buying new software because they alreedy have all they need from our front cover Oh yes. But does any one remember whether there was some software in the Magic Pack by Amige Technologies? Obviously not, it could have destroyed the market! Let's straighten this matter out

There is still a healthy market for word

processors, databases, spreadsheets, Because we've been promoting them all through the ups and downs of tha lest two years. My theory is that If people hedr't apt this software from mapazines, if they hedn't been offered cheap upgrades from gover mounted software, the market would be in a worse state then it is in at the moment Buying commercial software on the front cover of CU Amiga Magezina (or env of our competitors, or in the Amiga Magic peck with its suprib utility suite), makes you realise rust what's available and just how good it is. Programs like PageStream 2.2. Imaga FX and Imagine heve encouraged meny, who previously may not have considered investing in this eart of software to upgrade, to continue to use their Amigas for seri-

ous applications. What about games? We have not vet. You have naver seen a 'worth twenty five guid' badge on a gemes disk, on any Amige magezine ( believe That's because we land that other megazine publishers) have an acreement with the games publishers not to do so. This agreement dates back yeers and no-one has yet broken it. But consider this' where hes it got us? This 'NO COMMERCIAL GAMESI' crusade has not succeeded in saving the games market from a situation what a strile like Leading Lap was not going to be released - despite good

scores in all the magazines it was

reviewed in My indignation is tempered by the fact that the two markets (games and technical) are admittedly different. The technical market is upgrade led People with version 1 of a program inevitably upgrade to version 2 and so

Name me mora than a handful of gamaa where tha sequal was bettar than tha original and I'll est my Doctor Martenal

on. They want the improvementa and they want them now! But name me more than a handful of games whare the sequel was bettail than the original end I'll est my Doctol Martens. The games market is not upgrade led so the argument above holds more water in this climete.

wates in the dimeter
As a magacine we cannot afford
to pey the full development costs of
a piece of softween, not at E4 or
a piece of softween, not at E4 or
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dame of some softween on the front
cover. Don't forget though, these progreenment, publishers and developers
still have to make money from you
going out and buying these products
and upga deat

III Alan Bykon in

#### Workbench 4 - just begging for it!



by Mat Battinson
The commonest problems we hear of are snonymous crisines, gurus end such forth AmigaDOS will help out under some conditions to indicate which program is falling but conversely there are plenty of errors which con't be tracked down with any method.

other than an axhausting process of elimination. I have found it difficult to create a (eliable complex automatic listemat system on an Amige that does-

nt cresh at some stage in the night. Of course the problem institute Amigist fault as such end Commodion provided tools to halp programmers stird illegal memory accesses. These tools, known see Enforcer and Mungylest, inequite a Memory Meneagement Unit or MRU to trap and document errent memory accesses (creshes are usually caused by programs writing to parts of memory that are orthorwise engaged)

The brouble is the Arniga donent call something like Enforcer buffun. Currently, the most reliable operating systems are Unix venents and for the reason they are responsible for running most of the Internet. The feature of Unix that makes this silability possible is known as Memory Protochon, something that the new Wortsbench 4 is begging for 17 ms mean that tasks are

controlled by an MMU so that they can not access memory outside the area they have ellocated. The net thangs as task might cash itself but it can't crash the machine Interestingly, this is why some Unkt ports to the Amaga aren't nearly os evisible as the Unix counterparts in short, Unix can handle the buggy code but Amaga Can not (AMgasac

Currently the most reliable operating systems are Unix variants and for this reason they are responsible for running most of the internet.

for example). If the future Workbanch 4 has the strong features of previous incamations coupled with memory protection end other modern OS features, it would truly be a force to be reckoned with

III Met Bettingen is CE Assupe Managines (andresed Staff Bridge

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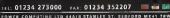
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